

1996 Annual Wildlife Survey Report

Natural Resource Compliance and Protection Program

Rocky Flats Environmental Technology Site

Prepared for

Kaiser-Hill Company, LLC

Golden, Colorado

by

PTI

Environmental Services

Boulder, Colorado

ADMIN RECORD

SW-A-005610

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**Kaiser-Hill Company, LLC
Rocky Flats Environmental Technology Site
Golden, Colorado 80402-0464**

by

***PTI*
Environmental Services
4940 Pearl East Circle, Suite 300
Boulder, Colorado 80301**

PTI Contract CB3E-04-01

FINAL: March 1997



PTI

ENVIRONMENTAL SERVICES

4940 Pearl East Circle, Suite 300
Boulder, Colorado 80301
(303) 444-7270 FAX (303) 444-7528

April 8, 1997

Steve Nesta
Program Manager - Ecology
Kaiser-Hill Company, L. L. C.
Rocky Flats Environmental Technology Site, P. O. Box 464
Golden, CO 80402-0464

Subject: 1996 Annual Wildlife Survey Report, Natural Resource Compliance and
Protection Program
Contract # CB3E

Dear Mr. Nesta:

Enclosed are ten copies of the Final 1996 Annual Wildlife Survey Report, Natural Resource Compliance and Protection Program for the Rocky Flats Environmental Technology Site. This is a contract specified deliverable under the PTI Ecological Monitoring Program Contract with the Kaiser Hill Company.

Should you require further information, please feel free to call me at extension 3560.

Sincerely,

Marcia B. Murdock

Enclosure:
As stated.

cc:
D. S. Felski, K-H (w/o attachment)
C. Hogue, PTI

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ACRONYMS AND ABBREVIATIONS

BEPA	Bald and Golden Eagle Protection Act
BZ	Buffer Zone
CDOW	Colorado Division of Wildlife
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
CNHP	Colorado Natural Heritage Program
CWA	Clean Water Act
DOE	U.S. Department of Energy
EA	Extended Observation Area
ESA	Endangered Species Act
FNWA	Federal Noxious Weed Act
FWCA	Fish and Wildlife Coordination Act
IA	Industrial Area
IED	Integrated Environmental Database
MBD	Migratory Bird Database
MBTA	Migratory Bird Treaty Act
NEPA	National Environmental Policy Act
NRCPP	Natural Resource Compliance and Protection Program
NRDA	Natural Resource Damage Assessment
NTECA	Colorado Nongame, Threatened and Endangered Species Conservation Act
RFCA	Rocky Flats Cleanup Agreement
RFFO	Rocky Flats Field Office
RMNP	Rocky Mountain National Park
SED	Sitewide Ecological Database
Site	Rocky Flats Environmental Technology Site
SSD	Significant Species Database
USFWS	U.S. Fish and Wildlife Service

EXECUTIVE SUMMARY

This report summarizes the results of wildlife surveys performed at the Rocky Flats Environmental Technology Site (Site) from January through December 1996. These surveys were performed as part of a long-term ecological monitoring program conducted under the Natural Resource Compliance and Protection Program (NRCPP). This program is essential in identifying and describing fluctuations of wildlife populations, wildlife habitat use, and changes in species using the Site. The data collected by the NRCPP provides the Department of Energy, Rocky Flats Field Office (DOE, RFFO) and Site contractors with a basis for decision making with regard to ecological compliance issues under the regulations cited in the main body of this report. The NRCPP also supports the DOE in its role as Natural Resource Trustee, and provides data essential to DOE's goal of preserving the unique ecological values of the Site, in keeping with the Rocky Flats Vision presented in the Rocky Flats Cleanup Agreement (DOE et al. 1996).

Wildlife population densities vary because of natural pressures and human influences, and only long-term monitoring can verify which factors influencing wildlife populations are the consequence of natural fluctuations, and which are due to human influences. Monitoring will become increasingly important as remediation activities at the Site progress. Monitoring is an important component of the Ecological Resource Management Plan for the Site (K-H 1997). Wildlife monitoring should also help DOE respond to any future Natural Resource Damage Assessment (NRDA) suits.

Monitoring of numbers, habitat affinities, and apparent health of the wildlife populations makes it possible to evaluate the overall ecological health of the Site. Such data are an invaluable tool in predicting and avoiding impacts on the ecosystem and ecological resources of an area due to projected human activities. If species should dwindle in numbers or disappear, it would be an indication of a serious environmental health problem. Monitoring and surveys such as those carried out under the NRCPP can indicate trends of this sort, and act as an "early warning system" for impending ecological problems. They can also confirm ecosystem health.

The Site provides a unique refuge along the central Front Range for a large number of bird and mammal species. The presence of this refuge results in large part from a major portion of the Site being protected for more than two decades from grazing, development, and other disturbances. The exclusion of grazing and development has allowed the native prairie/montane ecotonal system to rebound to a condition resembling the ungrazed, unfarmed natural conditions. Elsewhere along the Front Range, large-scale real estate development, mining, and water diversion on large tracts of land have destroyed or degraded much of the native habitat.

Data from the past several years show an abundance and diversity of species that demonstrate the excellent ecological health of the Site. Analyses of data from 1996 continued to indicate no significant change from the baseline conditions documented in 1991. Even in areas designated as contaminated, wildlife species do not show evidence of ecological stress. The wildlife population at the Site is vital, viable, and includes rare, imperiled, and protected species. The protection and isolation of the Buffer Zone has provided essential habitat for rare species such as eastern short horned lizards, loggerhead shrikes, American white pelicans, grasshopper sparrows, white-faced ibis, and Preble's meadow jumping mice. It also provides foraging habitat for peregrine falcons and bald eagles. Many of these are sensitive species or indicator organisms that by their presence, or more significantly, by their absence, indicate the ecological health of an area.

The Site supports a great diversity of bird species (187 species), including 19 avian predators. There are 43 mammal species (including 10 carnivores), eight reptiles, and seven amphibians at the Site, as well as numerous arthropods and other invertebrates. This species diversity is another indicator of the high quality of the habitats provided by the Site.

Area use mapping in this report confirms previous data indicating which physical locations are preferred by various wildlife groups at the Site. Area use reflects habitat preferences of wildlife, as well as other factors (i.e., refuge areas). Area use summaries confirm that locations within the main watercourses and around impoundments are the most important areas to wildlife. Areas occupied by xeric tallgrass prairie are also uniformly very important.

Habitat use summaries confirm the importance of both woody plant communities and grasslands to local wildlife. Seasonal summaries indicate the different habitat requirements at different seasons. Xeric tallgrass prairie is important fall breeding and winter foraging habitat for the resident mule deer herd. Additionally, xeric and mesic grasslands are important breeding habitats for grasshopper sparrows (a declining prairie species) and other grassland bird species.

No large-scale disturbances occurred during 1996; therefore, no adverse effects from disturbance were observed.

1. INTRODUCTION

1.1 BACKGROUND

The Rocky Flats Environmental Technology Site (Site) is a U.S. Department of Energy (DOE) nuclear industrial facility that has been part of the nationwide nuclear weapons complex since 1951. The Site is located in rural Jefferson County, Colorado, approximately 16 miles northwest of Denver and 5 miles southeast of Boulder. The Site covers approximately 6,262 acres, of which approximately 5,900 acres forms an undeveloped Buffer Zone (BZ) around the central industrialized portion. The original 1951 land purchase included approximately 2,520 acres of rangeland, which was expanded by an additional 4,030 acres from private ranches in 1974. The Site adjoins undeveloped rangelands that are encroached by housing developments on the northeast, east, and southeast. To the north and northwest, the Site is bordered by public open-space lands. Figure 1-1 shows the general location of the Site.

The original mission of this DOE facility was to manufacture nuclear weapons components. With the end of the Cold War and cessation of nuclear weapons production at the facility, the Site is undergoing cleanup and closure. One of the goals of the Rocky Flats Vision, as stated in the Public Comment Draft of the Rocky Flats Cleanup Agreement (RFCA) (DOE 1996), is the preservation of the Site's unique ecological values. Ecological monitoring is necessary to ensure regulatory compliance and to preserve and protect these unique ecological resources to the maximum extent possible during cleanup and closure. The Natural Resource Compliance and Protection Program (NRCPP) provides for such ecological monitoring.

1.2 THE NATURAL RESOURCE COMPLIANCE AND PROTECTION PROGRAM

The NRCPP monitors the status of plant communities, wildlife, and habitats, to ensure that operations at the Site remain in compliance with state and federal wildlife protection statutes and regulations, and DOE orders. Other goals of the program are to collect sufficient data to provide a scientific basis for National Environmental Policy Act (NEPA) documentation and to support cleanup and closure of the Site.

The regulatory drivers for NRCPP wildlife and habitat work include:

- The Migratory Bird Treaty Act (MBTA) (USC 1973a)
- The Endangered Species Act (ESA) (USC 1973b)

- The Fish and Wildlife Coordination Act (FWCA) (USC 1958)
- The Federal Noxious Weed Act (FNWA) (USC 1975)
- The Bald and Golden Eagle Protection Act (BEPA) (USC 1978)
- The Colorado Nongame, Threatened and Endangered Species Conservation Act (NTECA) (CO 1991)
- The Clean Water Act (CWA) (USC 1977)
- The National Environmental Policy Act (NEPA) (USC 1970)
- The Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) (USC 1980)
- Executive Order 11990, Protection of Wetlands (EO 1977a)
- Executive Order 11988, Floodplain Management (EO 1977b)
- 10 CFR Part 1022, Compliance with Floodplain/Wetlands Environmental Review Requirements (CFR 1979)
- 40 CFR Part 230, 404(b)(1), Guidelines for Specification of Disposal Sites for Dredged or Fill Material (CFR 1980)
- DOE Order 4300.1B, Real Property Management (DOE 1989a)
- DOE Order 6430.1A, General Requirements, Construction Facilities and Temporary Controls (DOE 1989b)
- DOE Order 5400.1, General Environmental Protection Program (DOE 1988).

The NRCPP conducts routine surveys to monitor the health and populations of high-visibility and sensitive wildlife groups such as migratory birds, game species, indicator organisms (e.g., raptors and neotropical migratory birds), and species afforded special protection by federal and state statutes. In this document, all these groups are identified as "significant species" due to their ecological significance. This ongoing monitoring program tracks population trends, habitat use, and species diversity from year to year, and is an important environmental management tool for the Department of Energy, Rocky Flats Field Office (DOE, RFFO) and its contractors. Data from these surveys are archived in the Site ecological databases and have been used in preparing environmental evaluations, remediation plans, environmental assessments, environmental impact statements, categorical exclusions, and project planning documents. These data are also used to make ecological resource management decisions to ensure the preservation of these resources at the Site. Data held in the NRCPP databases have been integrated into the Sitewide Ecological Database (SED), which can interface with the Rocky Flats Integrated Environmental Database (IED).

Routine monitoring provides data on habitat affinities of sensitive species, which can then be used to predict the presence or absence of such species within planned work areas. Availability of such information allows timely assessment of proposed actions for potential ecosystem impacts, thus reducing project delays caused by special ecological studies. These data are therefore a valuable planning tool that can help avoid conflicts between project scheduling and protective regulations. Monitoring also provides data for management decisions under the Ecological Resource Management Plan (K-H 1997). Continued monitoring of wildlife populations at the Site will also provide valuable background data for CERCLA-related Natural Resource Damage Assessment (NRDA) concerns in the future.

The NRCPP ecological monitoring program also supports the identification and protection of threatened and endangered species to comply with the ESA and NTECA, and addresses migratory bird protection concerns under the MBTA at the Site. Performance of NRCPP project-specific surveys, performed in work areas before such activities as construction, mowing, assessment, remediation, and other projects, are instrumental in keeping Site activities in compliance with the acts and regulations listed above.

A long-term ecological monitoring program such as the NRCPP ecological monitoring program is essential for identifying fluctuations in wildlife populations, wildlife habitat use, and changes in the species using the Site as year-round or seasonal habitat. Wildlife population densities vary because of natural pressures, and only long-term monitoring can identify changes and help verify which factors influencing wildlife populations are the consequence of natural fluctuations and which are due to human influences. This information is essential for effective ecological resource management at the Site. The NRCPP also has the flexibility to add special surveys as needed for specific projects. Existing data in the databases may then be combined with results from special surveys and queried to address specific ecological concerns. Availability of accurate, up-to-date ecological data is essential for planning long-term cleanup strategies. Additionally, advance knowledge of ecological concerns can help to avoid or minimize natural resource injury, thereby reducing liability for natural resource damages.

Data on all significant species are archived in the Significant Species Database (SSD), which is maintained by the NRCPP. The SSD provides an active database that may be queried for species habitat affinity, location, seasonal use, species numbers, relative abundance, unusual species, sightings of threatened, endangered, or "special-concern species," or any combination of such data. In addition to the SSD, the NRCPP maintains the Migratory Bird Database (MBD), which provides a data library of migratory bird presence, species diversity, and habitat affinity, based on migratory bird surveys.

Protection procedures and plans (DOE 1994a,b, 1997) developed and implemented by the NRCPP aid ecologists in assessing potential impacts to threatened, endangered, and special-concern species, as well as migratory birds and wetlands, all of which enjoy special protected status. Surveys performed in compliance with these procedures ensure that

wildlife and wetlands are protected, and that state and federal wildlife and habitat protection statutes are not violated during Site activities.

This report summarizes the results of wildlife surveys performed during 1996. Many survey techniques were used to determine populations and habitat use of wildlife species at the Site. The methods are outlined in the following section, and summaries of survey results for each major animal group monitored are presented in subsequent sections.

2. METHODS

Methods used to monitor the presence, habitat use, seasonal residence, species densities, breeding areas, and other pertinent wildlife parameters encompass several techniques. Relative abundance surveys, performed on established transects, record all wildlife observed. Sitewide surveys along established roads record all significant species. Project-specific work-area surveys record the presence or absence of any special-concern species and confirm the presence and/or locations of wetlands within project areas. Migratory bird surveys record bird species along established transects. In addition to these formal surveys, fortuitous sightings of any significant species are recorded (these may occur during the above surveys). Figure 2-1 illustrates the starting points of relative abundance and migratory bird survey transect routes.

Data from bird surveys are entered into the MBD. Significant species data from bird surveys, relative abundance surveys, and fortuitous sightings are entered into the SSD. These separate databases are subsets of the SED. Maintaining separate subsets of data allows entry of different types of data pertinent to different taxonomic groups or survey methods, and facilitates data analyses for each taxonomic group evaluated.

Some observations are entered into both databases. Entries into the SSD use grid locations as illustrated in Figure 2-1, using an alphanumeric code (e.g., 11-H) (see Appendix A for SSD data entry information). Migratory bird survey data are entered into the MBD on the basis of a transect identification number (e.g., BS01B).

2.1 DATA COLLECTION

2.1.1 Significant Species

Significant species are plants and animals of special interest because of their high visibility or their status, indicator organisms, sensitive species, federal and state protected species, or game species. Significant species groups include waterfowl, big game mammals, game birds, carnivores, raptors (birds of prey), small game mammals, furbearers, and selected other species. A list of plants and animals currently designated as significant species at the Site is presented in Appendix A.

2.1.1.1 Relative Abundance Surveys

Relative abundance surveys are performed monthly on 16 established survey routes, allowing long-term data collection on survey transects included in the NRCPP ecological databases. Monthly performance of these surveys allows collection of sufficient data to

accurately characterize habitat/area use and population densities of significant species year round. Transect routes vary in length (generally at least a mile) in all major habitat types at the Site. Figure 2-1 shows the locations of start points of these routes. The major habitats recognized at the Site include wetlands, riparian (streamside) woodland, riparian shrubland, tall upland shrubland, mesic mixed grassland, xeric mixed grassland, and reclaimed grassland.

Relative abundance surveys are performed in accordance with procedures laid out in the EMD Operating Procedures Manual Volume V: Ecology; Small Mammals (4-27-ENV-ECOL.05) and Large Mammals (4-E56-ENV-ECOL.06) (DOE 1994c). Surveys are performed by a qualified ecologist who walks established transects in specific habitats and records data for all animal species observed during the survey. Data on significant plant species encountered during these surveys are also recorded. Relative abundance surveys are designed to collect data on species abundance, area use, and habitat use. Data recorded include species, number of individuals, habitat, activities, age and sex classifications, and other pertinent information. Data are recorded as habitat use per elapsed observation time, providing information on what habitats are used, by which species, how often, and for what purposes.

2.1.1.2 Sitewide Significant Species Surveys

Sitewide significant species surveys are conducted along all main roads in the BZ at the Site. Preference is given to fair weather to optimize observation availability and driving conditions. During these surveys, all visible individuals of significant species observed during a short time span (i.e., 4 to 5 hours), over the entire property, are recorded. These surveys may be performed diurnally (during the day) or nocturnally (during the night).

Diurnal sitewide surveys are performed monthly. Nocturnal surveys are normally performed in August or September between dusk and midnight on the selected day. This survey method provides coverage over the entire BZ in areas that can be reached with the beams of hand-held spotlights. The purpose of these nocturnal surveys is to document the presence of nocturnal species that are rarely observed during daylight hours.

2.1.1.3 Project-Specific Special-Concern Species and Wetland Surveys

Special-concern species are a particular class of wildlife and plants that are of special interest at the Site due to their protected status or rarity. These have been designated on the basis of their rare or imperiled status, as identified by the U.S. Fish and Wildlife Service (USFWS), the Colorado Division of Wildlife (CDOW), the Colorado Natural Heritage Program (CNHP), and others. Species placed in this category by the NRCPP are federally listed threatened and endangered species; species formerly listed by the USFWS as candidate species; Colorado threatened, endangered, or Colorado Species of Special Concern; species from the CNHP lists of rare and imperiled species; and species "watch-

listed" by other regulatory or natural resource conservation groups. Special-concern species tracked by the NRCPP are listed in Appendix B. The NRCPP monitors the presence, locations, and numbers of these species to better ensure the Site's compliance with the applicable acts and regulations, and to provide appropriate protection for these species.

Project-specific surveys for special-concern species are performed in accordance with the ecology procedure Identification and Protection of Threatened, Endangered, and Special-concern Species (1-D06-EPR-END.03) (DOE 1994a). Project-specific migratory bird surveys are performed in accordance with the ecology procedure Migratory Bird Evaluation and Protection (1-G98-EPR-END.04) (DOE 1994b). Wetlands surveys are performed in accordance with the ecology procedure Wetland Identification and Protection (1-S73-ECOL-001)(DOE 1997). Locations for project-specific surveys are determined by the work plans for construction, assessment, and remediation projects.

2.1.1.4 Fortuitous Observations

Fortuitous observations are chance observations of significant species either during performance of other surveys not designed to target these species, or observations made during other activities. Such observations provide important information on species presence, habitat affinity, location affinity, and commonness at the Site.

2.1.2 Migratory Bird Surveys

Migratory bird breeding and seasonal population data are collected along 20 permanent survey routes (transects) established in all major habitats at the Site. Surveys of these transects are performed by a qualified ecologist who walks the established routes and records data for all bird species encountered during each survey. Figure 2-1 shows the locations of these routes. Migratory bird surveys are designed to collect habitat use and population data for all bird species in the BZ. Breeding bird surveys, conducted along these permanent transects, are performed weekly during the early summer breeding season (the month of June). Monthly population surveys are performed during the remainder of the year. Migratory bird surveys are performed in accordance with the EMD Operating Procedures Manual Volume V: Ecology, Bird Sampling (4-K26-ENV-ECOL.07) (DOE 1994c).

2.2 DATA ANALYSIS

Prior to analysis, data entered into the SSD or MBD are verified and validated to ensure accuracy. Corrections are made as required before data are analyzed. All summary tables used for analyses are based on this quality-assured data.

2.2.1 Significant Species Habitat Use

The SSD was queried to determine habitat use preferences of each species of interest. Summary tables for various species were then prepared, and percent of observations in each habitat were compared to determine habitats of major importance to individual species or species groups.

2.2.2 Significant Species Area Use

Area use summaries were derived by querying the SSD for grid points from observations of each species (see Figure 2-1). Summary tables were then prepared to facilitate mapping for each major species group. While preliminary maps were produced during data analyses, only selected maps are presented in this report. Due to the rarity of some species (i.e., special-concern species, raptors, and carnivores), only observation locations are presented on maps. Where habitat use was concentrated in a single habitat, or in a limited area, maps are not presented. Habitat use levels for mule deer are summarized on an annual basis for 1996. A map was then prepared to delineate areas at the Site of greatest importance to all wildlife species.

Use levels were assigned for mule deer, based on Site knowledge and professional interpretation by NRCPP ecologists. Decision criteria included species abundance, what habitats are considered "normal," what activity was observed, and general knowledge of the use patterns of the species. Use frequencies that were designated for mapping purposes were broken down as follows. Locations where the species is often observed, but data show low numbers of individuals observed, were designated "average" use areas. Locations where the species was judged to show greater affinity to the location were designated "elevated" use areas. Locations considered to indicate a critical use area because of the density of observations were designated as "heavy" use areas.

2.2.3 Bird Species Richness Analyses

The monthly data in the MBD were analyzed to determine species numbers (richness) for each habitat for all years examined. Data files from 1991 and 1993–1996 were tallied to determine species richness trends for each habitat.

2.2.4 Bird Density Analyses

Bird densities were calculated from bird numbers for each transect entered into the MBD. Birds-per-hectare density comparisons were calculated, based on 1991 and 1993–1996 data, using the Leopold method (Emlen 1971, 1977; Robinette 1974).

3. RESULTS AND DISCUSSION

The following sections present summaries of wildlife monitoring performed under the NRCPP during 1996. Comparisons with previous years are made in the discussions for each species group. Many of the data are summarized by season. For the purpose of this document, seasons are defined as spring (March through May), summer (June through August), fall (September through November), and winter (December through February). In the case of migratory bird summaries, winter data include December 1996 and January and February 1997, to allow better seasonal interpretation. Wildlife groups discussed below include special-concern species, big game mammals, mid-sized mammals, carnivores, waterfowl and shorebirds, raptors, reptiles and amphibians, and migratory birds.

3.1 SIGNIFICANT SPECIES

Significant species monitored during 1996 included special-concern species, big game mammals, mid-sized mammals, carnivores, waterfowl, raptors, and herptiles (reptiles and amphibians). A list of the species included in these groups is provided in Appendix A, along with a description of the SSD data entry process. Discussions in the following sections concentrate on area and habitat use by the various significant species groups. A complete 1996 data summary is provided in Appendix C. This data summary is a condensed version of all 1996 data entered into the SSD.

3.1.1 Special-Concern Species

Special-concern species are defined in Section 2.1.1.3. While the majority of these species that occur, or have potential to occur, at the Site are animal species, a few plant species are also included. It should be noted that these species are designated as special-concern because of their rarity. Observations of rare species are inherently sporadic and infrequent; consequently, many of these species may not be observed at the Site every year. Lack of observations of special-concern species at the Site in any given year is not considered cause for alarm, but no observations of a species for several years in a row would trigger a more intensive search, particularly if there had been no reported regional decline in the species.

Two threatened or endangered species use the Site seasonally. There are, however, 10 federal special-concern species documented, and an additional four Colorado Species of Special Concern. Table 3-1 presents the Site's 1996 search list for special-concern species. Figure 3-1 shows observation locations of special-concern species during 1996. The 1996 area use data summary for these species is provided in Appendix D.

3.1.1.1 Threatened and Endangered Species

Threatened and endangered species that used the Site during 1996 included the bald eagle (*Haliaeetus leucocephalus*) and the American peregrine falcon (*Falco peregrinus*). While these two species are not permanent residents at the Site, they do forage seasonally within the boundaries of the BZ. They are considered of concern, and are monitored, because of their protected status under the ESA. Site activities must be planned such that no take (harassment or harm) of these species occurs during the time they are present within Site boundaries.

3.1.1.2 Federal Proposed Species

The Preble's meadow jumping mouse (*Zapus hudsonius preblei*), a special-concern species at the Site, was proposed for listing as an endangered species in the March 25, 1997 Federal Register.

3.1.1.3 Federal Special-Concern Species

Federal special-concern species observed during 1996 included the eastern short horned lizard (*Phrynosoma douglassii brevirostra*), the loggerhead shrike (*Lanius ludovicianus*), the northern goshawk (*Accipiter gentilis*), the ferruginous hawk (*Buteo regalis*), and the white-faced ibis (*Plegadis chihi*).

3.1.1.4 Colorado Species of Special Concern

Colorado Species of Special Concern using the Site during 1996 included northern leopard frog (*Rana pipiens*) and the American white pelican (*Pelecanus erythrorhynchos*).

3.1.1.5 Watch-Listed Species

Watch-listed species observed at the Site during 1996 included the short-eared owl (*Asio flammeus*), the long-eared owl (*Asio otus*), the Swainson's hawk (*Buteo swainsoni*), the merlin (*Falco columbarius*), the northern harrier (*Circus cyaneus*), the Cooper's hawk (*Accipiter cooperii*), the sharp-shinned hawk (*Accipiter striatus*), the prairie falcon (*Falco mexicanus*), the golden eagle (*Aquila chrysaetos*), the black-crowned night-heron (*Nycticorax nycticorax*), the field sparrow (*Spizella pusilla*), and the grasshopper sparrow (*Ammodramus savannarum*). The latter two species are not illustrated on Figure 3-1 because of the relatively larger numbers of passerine bird (songbird) observations at the

Site (e.g., grasshopper sparrows, though declining in other areas, are quite common in grasslands at the Site).

3.1.1.6 General Discussion of Special-Concern Species

The species grouped together as special-concern species are from diverse taxonomic classifications, and therefore, are found in a variety of habitats. While the majority of special-concern species using the Site are raptors, other groups represented include herptiles, mammals, passerine birds, and water birds. Special-concern species using Rocky Flats are generally concentrated near the main watercourses, which is not unexpected of predominantly predatory species, nor of other species groups. Prey species are also more concentrated in these habitats. Table 3-2 presents a habitat use summary for all special-concern species (except grasshopper sparrows and field sparrows) observed during 1996.

Threatened and endangered species were rare at the Site. Bald eagles were observed mostly in the extended observation area (EA) outside the Site boundaries near the active Standley Lake nest. Because the majority of the observations were made in the vicinity of the nest, the habitat use observations were limited to riparian woodland. Bald eagles periodically make foraging flights over portions of the Site, and therefore may be observed over nearly any habitat (EG&G 1995a; RMRS 1996). Peregrine falcons have nested in the Flatirons, a few miles northwest of the Site, for several years (EG&G 1995b). A single American peregrine falcon was recorded at the Site during 1996. This individual was observed perched on a pole in xeric mixed grassland. Previous habitat use for the species at the Site has also included areas surrounding impoundments (DOE 1992; EG&G 1995a; RMRS 1996).

Federal special-concern species were observed periodically at the Site. Eastern short horned lizards were observed in xeric mixed grassland. This is apparently the preferred habitat for the species at the Site (DOE 1992; EG&G 1995a; RMRS 1996). Loggerhead shrikes were observed in a variety of habitats, but were seldom far from woody vegetation (woodland or shrubland). A northern goshawk and ferruginous hawks were recorded in riparian woodland, and white-faced ibis were found in association with water (mudflats or grassland adjacent to water).

The Preble's meadow jumping mouse, a species recently proposed for listing as endangered, was recorded in association with riparian shrubland (*Salix* dominated) and tall upland shrubland. This species is most strongly associated with the Great Plains riparian complex of the creek bottomlands, where water is readily available. Although the tall upland shrubland community is quite different from the riparian zone, the mouse is also present in portions of the tall upland shrubland. This is most likely because the tall upland shrubland is closely associated with active hillside seeps that provide the apparently requisite water source for the mouse. During 1996, two trapping study reports on this species were produced (K-H 1996a,b); therefore, no more detailed information is presented here.

Other Colorado Species of Special Concern also were observed at the Site. Northern leopard frogs were found in association with water (mudflats or grassland adjacent to water). Although American white pelicans were only observed in flight over grasslands at the Site during 1996, this species normally is associated with open-water habitat (EG&G 1995a; RMRS 1996).

A number of watch-listed species were observed at the Site. Black-crowned night-herons were found in riparian woodland on impoundment margins. Northern harriers were observed in a wide variety of habitats. Cooper's hawks were recorded in riparian woodland. Golden eagles, prairie falcons, and Swainson's hawks were most commonly found in association with either riparian woodland (roosting and nesting) or grasslands (foraging). A single observation of a merlin was made in reclaimed grassland in close association with riparian woodland. Short-eared and long-eared owls also showed an affinity for woody vegetation, with observations of long-eared owls in tall upland shrubland and riparian woodland, and short-eared owls in tall upland shrubland, xeric mixed grassland, and wetlands. Field sparrows were observed in association with wetlands and in xeric tallgrass habitat. Grasshopper sparrows were common to abundant in the xeric and mesic grasslands at the Site, and are also found in lower numbers in reclaimed grassland. The single observation of a sharp-shinned hawk was in mesic mixed grassland.

3.1.2 Big Game Mammals

The most common big game species at the Site is the mule deer (*Odocoileus hemionus*). Due to their high visibility and their status as year-round residents at the Site, a total of 2,355 individual observations of mule deer were recorded in 1996. Based on data from recent surveys, the current population at the Site is estimated to be approximately 130 to 135 individuals. This estimate is based on a winter deer count, and uses interpolation that takes into account the well-known fact that ungulate herds are routinely underestimated (Wallmo 1981). Site knowledge allows the ecologists to extrapolate observed numbers to estimate population. Elk (*Cervus elephus*) visit the Site on a casual basis, but are not considered resident. A single mule deer/white-tailed deer hybrid buck (male) has been resident at the Site for the past several years, and was again recorded in 1996.

Observations of white-tailed deer (*Odocoileus virginianus*) were more frequent during 1996 (29 observations) than in previous years (RMRS 1996). During the baseline characterization (DOE 1992), no white-tailed deer were recorded, but observations have increased markedly in recent years. During 1996, records of white-tailed deer mingling with mule deer at the Site were common. This species has been expanding its range in recent years to include large portions of Colorado that were previously the sole domain of the mule deer (Werner 1996, pers. comm.). White-tailed deer and mule deer are known to hybridize; therefore, hybridization at the Site may eventually become a management concern. The population trend of this species will bear further observation.

3.1.2.1 Winter Deer Count Comparison

A sitewide survey conducted on January 13, 1997, for the purpose of obtaining a mid-winter population count of big game at the Site, recorded 122 mule deer. Also present at the time of the survey were two white-tailed deer in company with a mule deer herd. Winter surveys such as this are weather dependent, and often, not all deer present at the Site are visible to observers or identifiable by age and sex. It should be noted, however, that the winter count has decreased since 1994, when 164 mule deer were counted in January. The number dropped to 143 mule deer in January 1995, and to 118 in January 1996. The 1997 count, however, is comparable to that of 1996.

The age class breakdown continued to indicate a fawn survival rate of approximately one fawn for every two does (1:2). The number of fawns recorded in January 1997 (23), while comparable to January 1996 (20 fawns), was only half that of the previous years (40 in 1994 and 43 in 1995). It should be noted that censuses of mule deer normally yield low counts of actual fawn numbers (Wallmo 1981). To better assess fawn survival, as it relates to the health of the Rocky Flats herd, a spring 1997 deer count will be required. Although opinions vary among authorities on mule deer populations, a fall season fawn-to-adult ratio of 30:70 is apparently ideal for maintaining the herd (Fitzgerald et al. 1994). The winter 1997 count showed 23 percent young-of-the-year (fawns born in June 1996), and some were probably not recorded. Adding spring and fall season deer counts in 1997 may help resolve questions about fawn survival success.

The number of bucks has increased from previous years. The number of does remained somewhat lower than in 1994 but similar to 1996. The 1997 ratio of does (58) to bucks (41), approximately 1.4:1, shows a good balance for a healthy herd. According to Wallmo (1981), a sex ratio of approximately two adult does per one adult buck indicates a very healthy mule deer population. The recent decline in mule deer numbers recorded at the Site may be normal population fluctuation. Should this prove to be a continuing trend, however, it will bear further investigation, especially in light of concern about mule deer populations in general across the western states (Wallmo 1981, pers. comm.; Woodling 1997).

The number of deer present in the BZ (approximately 11 deer/mi², on average) remains fairly large, and is attributable to the excellent health of the habitat and the protection afforded by prohibition of hunting within Site boundaries. The absence of accessible roads limits human activity in large portions of the BZ, offering substantial areas of refuge for the Site's mule deer herd. The resulting lack of constant human disturbance in the BZ provides protection from stress, and normally promotes a good fawn survival rate.

3.1.2.2 Area Use Summary

Monitoring data from 1996 were summarized by season (spring, summer, fall, and winter; Appendix D). Seasonal summaries of mule deer use at the Site reflect the species' strong year-round preference for some locations, and seasonal preference for others. The use patterns reflect two apparent area preference criteria. One preference is for specific seasonal habitat that meets certain survival requirements (e.g., protective cover for new fawns). A second important preference is for secluded areas. Some heavily used areas do not provide unique habitat, but do offer isolation from sources of disturbance.

Mule Deer Spring Area Use — During the spring of 1996, mule deer area use at the Site was the least dispersed compared to the other seasons, and mirrored longer-term use patterns discussed in the 1995 annual report (RMRS 1996). Snow-free south-facing hillsides were most preferred, as were locations providing the best refuge and thermal cover from residual winter storms that are common during March and April. Areas with the heaviest mule deer use were upper Rock Creek, the lower Rock Creek shrublands unit, the area encompassing the Antelope Spring and Apple Orchard Spring complex, and the upper Smart Ditch drainage basin. Several locations in xeric tallgrass prairie community were also frequent use areas when the weather was not severe.

Mule Deer Summer Area Use — Summer area use patterns in 1996 also mirrored those found in the four-year summaries presented in the 1995 annual report (RMRS 1996). Mule deer use during the summer was quite dispersed, with high use recorded in upper Rock Creek and similar portions of Woman Creek, Walnut Creek, and Smart Ditch. Fawning occurs at the start of the summer season (June), and by the end of summer (August), the fawns are gaining independence. Some areas of limited extent show evidence of heavy use by does with fawns or by groups of bucks.

Does with dependent fawns show a strong preference for areas with tall upland shrubland and riparian woodland complex habitats, such as those found in upper Rock Creek and along the bottomland areas of the Woman Creek and Smart Ditch drainages. Adequate cover to conceal young, along with isolation and security, are requirements for fawning habitat (WGFD 1985). For example, Rock Creek's tall upland shrubland is ideal fawning habitat.

Bucks are drawn to secluded areas with ample shade cover during this season. These areas include upper Rock Creek, the lower Rock Creek shrubland units, and the Smart Ditch drainage basin. Mature bucks are seldom found in the company of does with young during this season.

Mule Deer Fall Area Use — Mule deer use patterns during the fall of 1996 were similar in location and extent to the summer use patterns, and mirrored the longer-term summary presented in the 1995 annual report (RMRS 1996). The areas of heavy use were somewhat more extensive than in the summer, but very similar to previous years. The most concentrated fall use again was within the upper Rock Creek drainage, the Antelope Spring and Apple Orchard Spring complex, and the Smart Ditch bottomland areas occupied by riparian woodland complex. An additional heavy use area during this season was the riparian woodland complex of the A-Ponds. Certain areas occupied by xeric tallgrass prairie were also areas of high use, reflecting the tendency of the species to concentrate in these areas during the November breeding season (the rut). During the rut, large mixed-sex groups of mule deer were observed frequently in the open grasslands, often at the same location for several days at a time.

Mule Deer Winter Area Use — Winter mule deer area use at the Site continued to be somewhat less concentrated than spring use, but more concentrated than summer and fall. As in the other seasons, the most preferred locations are upper Rock Creek, the Antelope Spring and Apple Orchard Spring complex, and the Woman Creek and Smart Ditch bottomlands. Additionally, a pattern of use on south- and southeast-facing mesic grassland hillsides was evident. Some winter use patterns clearly reflected the thermal advantages provided by the preferred areas. Other winter use areas provide better quality, or more available forage, with reduced procurement effort (i.e., a better energy return for the effort). Upper Rock Creek, for example, provides refuge from the frigid northwest winter winds. South- and southeast-facing slopes provide the greatest incident thermal energy, as well as the best snow-free forage areas. Even as early as late January, many of the early forbs and grasses on these slopes are greening for spring growth, and provide good early-season forage.

Overall Annual Area Use — Figure 3-2 provides an area use preference summary for all seasons of 1996. When compared to the overall use summary for all seasons over several years, shown in the 1995 annual report, the use patterns remain virtually identical.

Area use data are an important tool used by Site ecologists to help project planners schedule disruptive activities so impacts on essential areas at critical times are minimized. Changes in scheduling may be all that is necessary to avoid unnecessary impacts to important species.

3.1.2.3 Mule Deer Habitat Use Summary

Mule deer habitat use concentration varied somewhat by season (Table 3-3). In the spring, 75 percent of the mule deer observed were in native grasslands (i.e., xeric mixed grassland and mesic mixed grassland), and 17 percent were observed in tall upland

shrubland. In the summer, the concentration shifted away from the native grasslands (50 percent) to the woody communities (24 percent in upland shrublands and 14 percent in riparian woodland/shrubland). In the fall, the habitat use concentration shifted back to the native grasslands (69 percent) and upland shrublands (16 percent). Winter habitat use was virtually identical to fall (69 percent native grassland and 13 percent upland shrubland).

3.1.2.4 Elk and White-Tailed Deer Area Use Summary

Few data are available on elk and white-tailed deer habitat preferences at the Site, but the higher number of white-tailed deer observations during 1996 indicates their continued willingness to abandon their normally preferred shrubland habitat to join the mule deer in the open grasslands. Habitat use summaries (Table 3-3) indicate that white-tailed deer use shrublands and grasslands almost equally. The majority of the white-tailed deer observations were of individuals in company with large or small groups of mule deer. Of interest is the fact that the white-tailed deer have extended their presence at the Site, from an initial concentration in lower Smart Ditch to an occasional presence near the A-Ponds and middle Rock Creek. Elk sign was observed in Rock Creek, and a single bull elk was observed in a wetland area in Smart Ditch during 1996.

3.1.3 Mid-Size Mammals

Desert cottontails (*Sylvilagus audubonii*) were the most commonly observed lagomorphs (rabbits and hares) at the Site during 1996 (141 observations). As in previous years, desert cottontails inhabited disturbed areas, scrap storage areas, trailer yards, conex storage areas, rip-rap areas, and other areas affording cover. White-tailed jackrabbits (*Lepus townsendii*) and black-tailed jackrabbits (*Lepus californicus*) have been recorded at the Site, but individuals of both species are seldom observed, and only tracks were recorded during 1996. Jackrabbits also were found near disturbed areas, but were most frequently observed near the aggregate mines at the Site. Table 3-4 provides a seasonal habitat use summary for these species. A complete 1996 data summary is provided in Appendix C. The 1996 area use data summary is provided in Appendix D.

Muskrats (*Ondatra zibethicus*) were observed in impoundments (ponds) and tall marsh (in the SID) during 1996. Populations of this species are difficult to estimate without a heavy trapping regimen, but 20 observations in 1996 confirm the continued presence of the species in appropriate habitat. Table 3-4 summarizes seasonal habitat use by this species.

Signs of porcupines (*Erethizon dorsatum*) were observed on 3 occasions in 1996, and one actual observation was recorded. All were within areas of the Rock Creek drainage. Their preferred forage species are hawthorn (*Crataegus sp.*), choke-cherry (*Prunus vir-*

giniana), and ponderosa pine (*Pinus ponderosa*), all of which are most abundant in upper Rock Creek. Table 3-4 summarizes seasonal habitat use by this species.

Eastern fox squirrels (*Sciurus niger*) are uncommon at RFETS due to limited habitat, and most probably, the abundance of predators. One individual was recorded in upper Rock Creek during 1996.

Prairie dogs were once established in several colonies at the Site, but had not repopulated by the end of 1996. Prairie dog populations in the vicinity have not rebounded from the regional die-off caused by the plague epizootic in 1994.

3.1.4 Carnivores

The most abundant carnivore species at the Site is the coyote (*Canis latrans*) (158 observations in 1996), and the next most abundant is the raccoon (*Procyon lotor*) (18 observations). The coyote population declined in late 1994, probably due to canine distemper, which swept through the local area, but the population rebounded to normal in 1996. Four different coyote whelping dens were recorded during 1996, confirming that the coyote population has returned to normal after the distemper outbreak. Coyotes were found in all habitats, but were most visible in marshlands and grasslands. Areas frequented by carnivores are shown on Figure 3-3. Table 3-5 provides a seasonal habitat use summary for 1996. A complete 1996 data summary for these species is provided in Appendix C. The 1996 area use data summary is provided in Appendix D.

Raccoons are most frequently documented from tracks or through small-mammal trapping. Because of their penchant for robbing bait from traps set for small mammal studies, raccoons are often intentionally trapped in live-traps set along small-mammal traplines and are relocated to other locations on the Site to prevent their continual interference in small-mammal studies. A total of 17 individuals were observed during 1996. Observations were in both the Industrial Area (IA), where they frequented areas with food refuse, and in the BZ, near riparian channels and pond margins. Locations of raccoon observations are shown on Figure 3-3. Table 3-5 provides a seasonal habitat use summary for 1996.

Other carnivores observed at the Site during 1996 included striped skunks (*Mephitis mephitis*), gray foxes (*Urocyon cinereoargenteus*), and mink (*Mustela vison*). Black bears (*Ursus americanus*) were recorded for the first time in 1996. Area use by these carnivores is illustrated in Figure 3-3. Most sightings of these carnivores are fortuitous or are made during night surveys, or their presence is indicated by observed tracks or sign (see Table 3-5 for habitat use in 1996).

Carnivores are the top species in the mammalian food chain, and trends in their populations are an indicator of the ecological health of an area. The top carnivores in an ecosystem must have a large, healthy population of prey species upon which to subsist.

Reduced numbers of prey species are normally reflected in reduced numbers of carnivores.

3.1.5 Waterfowl (Ducks, Geese, and Shorebirds)

The majority (51 to 98 percent, seasonally) of the 48 species of waterfowl and other shorebirds observed at the Site were concentrated around the impoundments (ponds) (Table 3-6). Area use varies somewhat between the fall/winter and spring/summer seasons. Fall/winter area use was highly concentrated on the major impoundments at the Site, while spring/summer use was more dispersed. Some observations during the breeding season occurred along creeks, in ditch and creek pools, and in greening grasslands. Of this group, 14 species have been documented as breeders or suspected breeders at the Site. The most recent was the ruddy duck, which not only was first recorded at the Site during 1996, but was also confirmed as breeding at Pond D-2.

Most waterfowl and shorebirds were observed on the large impoundments at the Site. Diving ducks, such as buffleheads (*Bucephala albeola*), ring-necked ducks (*Aythya collaris*), redheads (*Aythya americana*), and lesser scaup (*Athya affinis*), were most commonly observed in the deeper ponds (A-3, A-4, B-5, and C-2). Species found more generally in shallow waters of the deeper ponds and in the shallower ponds included blue-winged teal (*Anas discors*), mallards (*Anas platyrhynchos*), cinnamon teal (*Anas cyanoptera*), and gadwall (*Anas strepta*). Puddle-ducks, primarily mallards, were also observed in pools, at seeps, and along creeks. Great blue herons (*Ardea herodias*) were observed on impoundment mudflats and in ditches, short marshland, and wet meadows.

The most common waterfowl at the Site during 1996 were mallards (667 observations) and Canada geese (*Branta canadensis*) (335 observations). The most common wading bird at the Site was the great blue heron (25 observations). Proportionally, these observations are comparable to previous years (DOE 1992; EG&G 1995a; RMRS 1996).

In addition to the species listed above, there were several common summer season residents. These species included double-crested cormorants (*Phalacrocorax auritus*) (20 observations in summer 1996), pied-billed grebes (*Podilymbus podiceps*) (277 observations for the year), American coots (*Fulcia americana*) (366 observations for the year), and green-winged teal (*Anas crecca*) (137 observations for the year). New waterfowl and wading bird species recorded at the Site in 1996 included the white-faced ibis, a special-concern species, and the ruddy duck (*Oxyura jamaciensis*).

Several waterfowl species raised young at the Site during 1996. Brood counts confirmed nesting by pied-billed grebes, American coots, mallards, green-winged teal, blue-winged teal, cinnamon teal, and ruddy ducks. Black-crowned night herons (*Nycticorax nycticorax*), though not numerous at the Site (11 observations), were suspected to have bred at Pond D-2. Breeding by this species at this location has been confirmed in previous years (EG&G 1995a).

A complete 1996 data summary is provided in Appendix C. The 1996 area use data summary is provided in Appendix D.

3.1.6 Raptors

All raptors with appropriate habitat and range for the Site's vicinity in Colorado have been recorded at the Site (Andrews and Righter 1992). Although the raptor species using the Site vary between the spring/summer and fall/winter seasons, the areas of frequent use during these seasons were very similar. Figure 3-4 illustrates the areas of high use for raptors at the Site. The use concentrations throughout the year are highest in the Rock Creek shrublands, the riparian corridors of the three main drainages of the Site, and around the ponds. Since these are the areas of concentration for prey species (small mammals, songbirds, and waterfowl), higher use of these areas by the avian predators is to be expected. A complete 1996 data summary is provided in Appendix C. The 1996 area use data summary is provided in Appendix D.

Observations of red-tailed hawks (*Buteo jamaicensis*) declined somewhat, with 86 observations in 1996, compared to 100 in 1995 (RMRS 1996). It should be noted that these numbers include all observations (survey data and fortuitous observations) inducing some observational bias. However, Site knowledge, historical data, and professional judgment are used in interpreting the data. The decline in red-tailed hawk observations may be due to the generally low numbers of over-wintering hawks at the Site during recent years. The depressed prairie dog prey base in the larger vicinity has caused a corresponding reduction of raptors in the area since 1994 (RMRS 1996; EG&G 1995a).

Great horned owls (*Bubo virginianus*), were observed somewhat more frequently in 1996 than in 1995; however, this increase is largely due to numerous observations of flightless owlets at two nest locations. American kestrels (*Falco sparverius*) continued to be common at the Site, with 51 observations in 1996. Northern harriers (*Circus cyaneus*) were less commonly observed in 1996 (18 observations). One pair of Swainson's hawks (*Buteo swainsoni*) nested at the Site, successfully fledging one young bird. Golden eagles (*Aquila chrysaetos*), while observed at the Site year-round, were not numerous (12 observations in 1996). Prairie falcons (*Falco mexicanus*) were recorded on three occasions (four individuals).

Only three Ferruginous hawks were observed in the BZ, and one in the Extended Observation Area (EA), down from seven in the BZ and 40 in the EA in 1993 (EG&G 1994). The number of ferruginous hawks recorded in the vicinity has declined since the prairie dog die-off of 1994. Rough-legged hawk (*Buteo lagopus*) observations declined from 21 in 1995 to 8 in 1996. The lower number of their preferred prey species (prairie dogs) is suspected to be the cause.

Other raptor species recorded at the Site in 1996 include short-eared owls (*Asio flammeus*), long-eared owls (*Asio otus*), a sharp-shinned hawk (*Accipiter striatus*), an American peregrine falcon, a merlin (*Falco columbarius*), Cooper's hawks (*Accipiter cooperii*), and turkey vultures (*Cathartes aura*). Several of these are special-concern species. Raptors that nested at the Site during 1996 included great horned owls, red-tailed hawks, and Swainson's hawks.

Habitat use by season is summarized in Table 3-7. The majority of raptor species use woodlands or tall upland shrublands for nesting and roosting habitat, and forage in all habitats. Falcons generally forage where songbirds or waterfowl are abundant (woodlands, shrublands, and impoundments), while buteos (broad-winged hawks) more commonly forage in the grasslands and wetlands.

3.1.7 Herptiles (Reptiles and Amphibians)

Herptile species observed during 1996 included the bullfrog (*Rana catesbeiana*), boreal chorus frogs (*Pseudacris triseriatus maculata*), northern leopard frog (*Rana pipiens*), tiger salamanders (*Ambystoma tigrinum*), western painted turtles (*Chrysemys picta*), eastern short-horned lizards, the western plains garter snake (*Thamnophis radix*), the red-sided garter snake (*Thamnophis sirtalis*), and the prairie rattlesnake (*Crotalus viridis*).

Observations of these species are sporadic and widely distributed, so individual observations during 1996 are not illustrated on a map. Habitat preference of herptiles varies by species. Table 3-8 presents seasonal summaries of herptile observations by habitat. A complete 1996 data summary is provided in Appendix C. The 1996 area use data summary is provided in Appendix D.

3.2 MIGRATORY BIRDS

3.2.1 Relative Abundance

Assessment of relative abundance (number of individuals observed per unit time in a given habitat) is a qualitative means of determining species densities in various habitats. Table 3-9 summarizes bird distribution by habitat, based on relative abundance comparisons from migratory bird surveys, relative abundance surveys, sitewide surveys, project-specific surveys, and fortuitous observations. This summary table shows a running tally of species recorded at the Site since 1991, and presents relative abundance in appropriate habitats for each species. The table does not contain estimates of total population for each species inhabiting the Site. Some species are very habitat specific, while others are virtually ubiquitous.

Evaluation of habitat use by birds, as indicated by cumulative combined records from all observation methods since 1991, yields somewhat different total species numbers for the

different habitats than the species richness data from bird surveys only, as discussed in Section 3.2.3. Based on all combined data, bird species richness in the major habitats at the Site is 94 species in grasslands, 89 species in tall upland shrubland, 80 species in riparian shrubland, 111 species in riparian woodland complex, 111 species in wetlands, and 50 species in disturbed habitats (Table 3-9).

3.2.2 General Observations

Several migratory bird species new to the Site were recorded during 1996. These sightings were made during relative abundance surveys and bird surveys, or were recorded as fortuitous sightings. New waterfowl included the ruddy duck and the white-faced ibis (*Plegadis chihi*), a species of special concern. The new passerine (songbird) species are the mountain chickadee (*Parus gambeli*), the northern mockingbird (*Mimus polyglottos*), the brown thrasher (*Toxostoma rufum*), the American redstart (*Steptophaga ruticilla*), the snow bunting (*Plectrophenax nivalis*), the fox sparrow (*Passerella iliaca*), the purple finch (*Carpodacus purpureus*), the semipalmated sandpiper (*Calidris pusilla*), and the field sparrow (*Spizella pusilla*).

As a result of breeding bird surveys, relative abundance surveys, and fortuitous observations, the list of confirmed and suspected breeding bird species continued to grow in 1996, to include 187 species. Based on known ranges and typical habitat for Colorado bird species outlined by Andrews and Righter (1992), 134 of the species reported at the Site are within their primary ranges, 45 are in secondary range, and 7 are accidental. There is a potential for an additional 39 species to occur, but range maps for these species show the Site at the edge of their ranges.

Confirmed breeding species are those species that have been observed building nests, tending eggs, or tending young, or for which young, flightless nestlings have been observed. Suspected breeding species are those that have been observed carrying nesting material, food, or other such indicators of breeding activity, without visual confirmation of the presence of a nest or young. The current list of breeding bird species now includes 73 species believed to breed on the Site. Among the 100 species of neotropical migrants known to use the Site, 45 are confirmed or suspected breeders at the Site.

3.2.3 Migratory Bird Survey Summaries

Five years of migratory bird survey data, gathered along 20 permanent transects at the Site, were evaluated for trends in species richness (number of species) by habitat, and for bird densities (individuals per hectare) for each of seven habitats. Species richness and densities were summarized by season. Data collected during 1996 were compared to previously reported data (DOE 1992; EG&G 1994, 1995a; RMRS 1996) to examine trends in these parameters. Results for the five years' data for the summer breeding sea-

son (the month of June) and for the winter season (December, January, February) are discussed below.

3.2.3.1 Bird Species Richness Trends

In interpreting the following discussion, it is necessary to understand that a sufficient sample size to allow statistical adequacy (a test of power) for data analyses will not be reached until several more years of data have been collected. Bird populations are subject to natural variations from year to year, depending on local weather and forage conditions. Species as mobile as birds can easily shift residential area use in response to forage availability, range conditions, and severe weather. Short-term changes in populations and species presence can be expected from year to year. A Pearson's correlation run on the species richness data indicated that, except in riparian woodland, the trends presented were not statistically significant (showed no actual change).

Species richness increased slightly in all habitats over the 5-year data collection period (Table 3-10, Figure 3-5). The increase in species richness in riparian woodland during the breeding season was statistically significant, showing an apparent actual increase in species numbers. Apparent increases in other habitats were the result of normal fluctuations. Some of this increase may be due to increased familiarity of the field personnel with the bird species typical of the Site, resulting in higher identification accuracy of obscured birds and bird vocalizations. Individually, most habitats reflect this trend in both the winter season and the June breeding season (Figure 3-6 to 3-12). The exceptions appear in wetlands (Figure 3-6) and leadplant-dominated riparian shrublands (*Amorpha fruticosa*) (Figure 3-8), where the species richness has declined slightly, and in xeric mixed grasslands, where richness has remained unchanged (Figure 3-11).

Neotropical migratory birds are migratory species that travel to Central and South America (the neotropics) to over-winter, and return to North America to breed. These species have been of interest to ornithologists throughout the Western Hemisphere because most species populations have declined in numbers. Many neotropical species are watch-listed by ornithological groups. Neotropical bird species richness at the Site has fluctuated from year to year, with a slight downward trend in numbers of species during the five years of monitoring. Figure 3-13 illustrates species richness of neotropical migrants during the breeding season (June) since 1991. The downward trend may reflect the overall decline of this group regionally (Carter 1996, pers. comm.). Groups such as the Colorado Bird Observatory have been collaborating with South American scientists to track trends and monitor breeding success of species in this group.

Because the apparent decline in the number of wetland species during the breeding season was of some concern, data records for the remaining summer surveys were reviewed to determine whether this trend appeared genuine (Table 3-10). This supplemental data review included fortuitous observations and relative abundance survey data, as well as migratory bird survey data. Findings of this additional review indicated that, while some

previously recorded species were not observed on the 1996 breeding season transects, most of these species were actually still present at the Site, but were not observed on the surveys performed in June. Those species that were not observed at all were generally in the category of rare to the Site, and records of these species are not consistent from year to year.

Species richness in winter is typically low when compared to summer (see Appendix E). The characteristic winter species assemblage changes somewhat from year to year with additions or losses of recorded species in most habitats. Occasionally, severe winter weather drives birds into deep cover where they cannot be observed, or sometimes causes them to move temporarily to milder offsite locations. Analysis of winter conditions is hampered by low numbers of observations. The assemblage in riparian woodland, however, is normally characterized by American tree sparrows (*Spizella arborea*), great-horned owls (*Bubo virginianus*), and northern flickers (*Colaptes auratus*). Tall upland shrublands are normally characterized by black-billed magpies (*Pica pica*), and black-capped chickadees (*Parus atricapillus*).

The greatest richness in summer bird assemblages appears in woodland and tall upland shrubland habitats (Table 3-10). These two woody habitats have the greatest annual maximum and mean species richness of all the habitats surveyed. Grassland habitats, although they exhibit somewhat lower species richness, support very different species assemblages (Appendix E). Since multi-strata woody vegetation types provide a greater number of niches, the greater species richness is expected. It should also be noted that the linear character of these woody habitats tends to provide a large ecotonal zone that is attractive to both woodland/shrubland species and grassland species. Thus, numerous grassland species may also be observed at the edges of the woody habitats. The sitewide bird species richness, including species recorded in grasslands, woody vegetation types and wetlands, includes 185 different species (Table 3-9).

To better understand the differences and similarities of bird species assemblages in different habitats at the Site, a similarity index (Simple Matching Coefficient) was prepared to allow comparison of the major habitat types. This particular index compares the co-occurrence of bird species between habitats for the 5-year observation period, and also gives weight to species that were absent when compared to the bird species list for all habitats (Table 3-9). The comparisons were made on a habitat pair-wise basis (e.g., grassland habitat in 1991 versus woodland habitat in 1993). These index numbers represent the degree of similarity between each species set. An index of 1.0 demonstrates that the lists are identical, while low numbers (e.g., 0.38) demonstrate a low degree of similarity.

This comparison revealed that woodland/shrubland habitats support slightly different assemblages of birds than wetlands and grasslands, and that species assemblages in grasslands and wetlands are more similar to each other than they are to the woodland/shrubland assemblages. This is expected, because of the landscape layout of these habitats. Wetlands are most often long, narrow strips or patches set into surrounding

grasslands. Ecotonal areas between these two habitats are often indistinct, and both habitats are often sampled together along these transects. In general, grassland species are common along wetland edges, but species that prefer woody habitat are more niche specific, and are less likely to spend time in less favorable habitat. Table 3-11 presents a similarity index analysis that compares grassland, woodland/shrubland, and wetland habitats on an annual basis.

3.2.3.2 Bird Density Trends

Several typical species for each monitored habitat were selected for bird density trend analysis. Standard deviations of density calculations (Table 3-12) indicate that these trends are not significant, but they do provide a measure of the health of migratory bird populations at the Site. Table 3-12 presents the densities (individuals per hectare) of these selected species over time. Species were selected based on their overall density in each habitat type and/or their uniqueness to a particular habitat (indicator species). Trends of undesirable species, specifically the European starling (*Sternus vulgaris*) and the brown-headed cowbird (*Molothrus ater*) are also described where appropriate. These species are considered undesirable because of competition with native species and nest parasitism, respectively.

Wetlands are represented by the red-winged blackbird (*Agelaius phoeniceus*), song sparrow (*Melospiza melodia*), common yellowthroat (*Geothlypis trichas*), and common snipe (*Gallinago gallinago*). Overall, densities of these species in wetland areas are increasing (Table 3-13). Changes in densities of less desirable species are insignificant.

Riparian woodland habitats are represented by the northern oriole (*Icterus glabula*), American goldfinch (*Carduelis tristis*), house finch (*Carpodacus mexicanus*), and yellow warbler (*Dendroica petchia*). Northern oriole densities are increasing, but densities of the other three species have decreased (Table 3-12). The density of European starlings is increasing in riparian woodland areas. The density of brown-headed cowbirds is relatively stable over time.

Leadplant-dominated shrub habitats are represented by the vesper sparrow, northern oriole, and mourning dove. The overall trend of these selected species is increasing densities (Table 3-12). The density of starlings is also increasing, whereas brown-headed cowbirds are rare.

Tall upland shrubland habitat is represented by song sparrows, rufous-sided towhees, black-billed magpies, yellow-breasted chats, and black-capped chickadees. Black-capped chickadees appeared only recently in this habitat; during the first two years, none was observed, then they appeared and have been increasing in density. The overall densities of the selected species in this habitat show an increase. Densities of yellow-breasted chats are stable over time.

Mesic mixed grasslands are represented by the vesper sparrow, the house finch, the western meadowlark, and the grasshopper sparrow. The densities of house finches and meadowlarks are increasing, whereas vesper sparrow densities are declining. The density of grasshopper sparrows is increasing.

Xeric mixed grasslands are represented by grasshopper sparrows, vesper sparrows, western meadowlarks, and mourning doves. These selected species are showing an increase in densities over time, with the densities of meadowlarks and mourning doves increasing only slightly. There is a general trend of increased grasshopper sparrow densities in grassland habitats across the Site.

Reclaimed grasslands are represented by the western meadowlark, the vesper sparrow, and the grasshopper sparrow. The overall density trend for these selected species is steady, but the density of grasshopper sparrows is increasing.

3.3 GENERAL DISCUSSION OF SITE SPECIES DIVERSITY

Since 1991, 187 species of birds (including 19 raptors), 3 big game species, 11 species of carnivores, 9 species of mid-sized mammals, 20 small mammal species, eight reptile species, and seven amphibian species have been recorded at the Site. Such species diversity is impressive for a site of such small size. The diversity and continued use of the Site by special-concern species verifies that habitat quality for these species has remained acceptable. Of particular interest is a species diversity comparison between the Site and Rocky Mountain National Park (RMNP). While the Site is only 2 percent the size of RMNP, and has only three life-zones, as compared to 10 in the park, the number of mammal and herptile species is comparable (43 versus 48, and 7 versus 5, respectively). The numbers of bird species also correlates well, with 187 species recorded at the Site versus 268 recorded in RMNP. Thus, the Site exhibits a species richness that is 68 percent of that in RMNP at only 2 percent of the acreage. It should be noted that 36 of the bird species at the Site and 94 of those in RMNP are listed as "rare," so the Site supports 151 "normal" species, compared to 174 "normal" species in RMNP (or 87 percent of the species richness). Table 3-13 presents a comparison summary of Site fauna to nearby Jefferson County and Boulder Open Space lands, and RMNP. This comparison demonstrates the excellent overall species diversity at the Site, indicating that Site habitats are of high quality, although some of the habitat has been degraded and continues to be threatened by the invasion of noxious weeds.

4. CONCLUSIONS

4.1 SITE CONDITION

The Site provides a unique refuge along the central Front Range area for a large number of bird and mammal species. Most of the Site has been protected from grazing, development, and other disturbances for more than two decades. It is this protection that has provided wildlife an important refuge area in which to live and reproduce, and to maintain an impressive species diversity compared to surrounding areas. Excluding all of the BZ from grazing and development since the 1970s has allowed the native prairie/montane ecotonal area to rebound from its previously overgrazed state. Elsewhere along the Front Range, large-scale real estate development, mining, and water diversions on large tracts of land have destroyed or degraded much of the native habitat that was once available. Rare or imperiled species such as American peregrine falcons, bald eagles, eastern short horned lizards, loggerhead shrikes, black-crowned night-herons, American white pelicans, grasshopper sparrows, and Preble's meadow jumping mice are found at the Site because of its function as a refuge. Many of these species are sensitive species or indicator organisms, which by their presence (or more significantly, by their absence) indicate the ecological health of an area.

The area use mapping for 1996 corresponds well with the multi-year summaries presented in the 1995 annual report (RMRS 1996), and continues to show that the same areas are important to wildlife year after year. Use of refuge (isolation) areas continued to show importance, and areas of high use were consistent with previous years (RMRS 1996). Figure 4-1 shows a summary of all heavy use and elevated use areas, for all species combined, during 1996. This use map confirms that the areas with the main watercourses and impoundments are the most important areas to wildlife. Areas occupied by xeric mixed grasslands are also important. Areas of heavy use mapped on Figure 4-1 should be interpreted as essential habitat areas for a large number of species at the Site, and planning of future activities should take this habitat sensitivity into account.

The dominant big game species is the mule deer, although white-tailed deer have remained resident in small numbers for the last several years, and elk also visit the Site on a casual basis. Muskrats, eastern fox squirrels, and porcupines continued to occupy the Site in appropriate habitat. Desert cottontails are the most abundant lagomorph species, with white-tailed or black-tailed jackrabbit tracks observed during 1996. The diversity of carnivores present at the Site reflects the large number of habitats, ecological niches, and prey available at the Site.

Xeric and mesic mixed grasslands continued to show importance as fall breeding and winter foraging habitat for the resident mule deer herd. Additionally, xeric and mesic

mixed grasslands are important breeding habitats for grasshopper sparrows (a special concern prairie species) and other grassland bird species.

The Site supports a high diversity of bird species. Seventy-three of the bird species recorded are believed to breed at the Site. One hundred neotropical migratory bird species have been recorded at the Site. The presence of numerous waterfowl and shorebirds indicates good water quality and abundant food organisms available in aquatic and wetland habitats. The diversity of raptors (19 species) is also an indicator of the ecological health of an area. Raptors must have a large, healthy population of prey species upon which to subsist. The reduced numbers of raptors recorded at the Site over the past three years reflects the reduced number of their preferred prey species, prairie dogs. Numbers of prairie dogs in the general vicinity of the Site have not yet recovered from the plague epizootic.

Bird species richness in woodlands and tall upland shrubland is the greatest, though grassland habitats, with their own distinct bird assemblages, also show good species diversity. With the exception of riparian woodlands, the Site's habitats show slight increases, or no change, in bird densities. In riparian woodlands, densities have declined somewhat, as represented by the selected species. The trend in neotropical migratory birds warrants further investigation, but is likely reflective of an overall regional trend.

The long-term, year-round ecological monitoring program conducted under the NRCPP is essential in identifying, describing, and quantifying fluctuations of wildlife populations, wildlife habitat use, and changes in the species using the Site as year-round or seasonal habitat. Wildlife population densities vary constantly because of natural pressures, and only well integrated, long-term monitoring such as this can help differentiate between consequences of natural causes and those of human activities. An integrated monitoring program that gathers data on ecologically interactive species is essential in evaluating population fluctuations. Such data are an invaluable tool in predicting and avoiding impacts on the ecology of an area due to projected human activities. If sensitive species should dwindle in numbers or disappear, serious environmental health problems might be indicated. Monitoring and surveys such as those carried out by the NRCPP will identify trends of this sort, and act as an "early warning system" for impending ecological problems. This function will become increasingly important as remediation activities at the Site increase, and will play an essential role when NRDA evaluations are made.

An example of the relationship between the Site and surrounding areas is the occasional observations of elk and black bear. These are predominantly montane species that move to surrounding habitat or lower elevations in response to forage availability or climatic pressures. The presence of these species at the Site demonstrates the close link between the foothills and the Site. Undeveloped parcels of land currently provide access routes to and from National Forest and Boulder City Open Space lands to the west and north of the Site. The Site's species diversity is enhanced somewhat by the proximity of this montane life-zone to the plains life-zone, and the access corridor provided. Development on these parcels may diminish the overall species diversity in time, as will habitat fragmentation

on the Site and surrounding areas. The greater Rocky Flats ecosystem is an example of the whole being greater than the sum of its parts. Each parcel of open area (i.e., Buffer Zone, open space, National Forest, and State Park) surrounding the Site contributes to the species diversity and ecosystem health of all the other politically delineated parcels. Habitat damage or loss in any unit will ultimately affect all the others.

The data summaries from 1996 continue to show an abundance and diversity of sensitive species, demonstrating the excellent ecological health of the Site. Even in areas designated as contaminated, wildlife species do not evidence ecological stress (manifested by poor viability, reduced numbers of surviving offspring, unusual vulnerability to disease, or lowered population levels). The wildlife populations at the Site are vital, viable, and include rare, unusual, and endangered species.

4.2 RECOMMENDATIONS

After the 1996 data analyses were conducted, some additional questions arose, and answers could not be derived from the current data format. A need for additional data are anticipated in the near future because of new Site projects and new data requirements identified in the Ecological Resource Management Plan (K-H 1997). To respond to these changing data needs, it is recommended that the following changes or additions be considered for the wildlife monitoring effort:

- Due to unanswered questions about the mule deer population stability at the Site, specific spring and fall age-class surveys should be added to the program to enable analysis of surviving fawn numbers. Fitzgerald et al. (1994) noted that the fall fawn population must be 30 to 33 percent of the total to sustain the current population.
- The addition of specific waterfowl brood counts on all the ponds during spring and early summer would provide better data for predicting future impacts to those species if the water management regimen at the Site should change substantially. Brood counts should be conducted every 2 weeks through May, June, and July.
- Addition of an annual fish trapping effort in any permanent waters at the Site is recommended. To date, no comprehensive sitewide search has been made for fish species. Because some species are of concern, and several fish species are found on watch-lists for the Rocky Flats vicinity or the Platte River drainage, it would be prudent to investigate species presence. A population monitoring effort is unwarranted at this time, because of the ephemeral nature of the Site's water systems.

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Figures

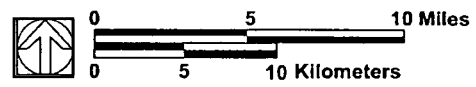
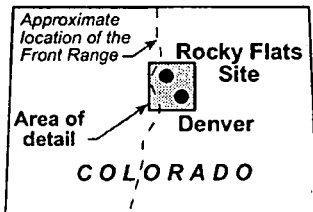
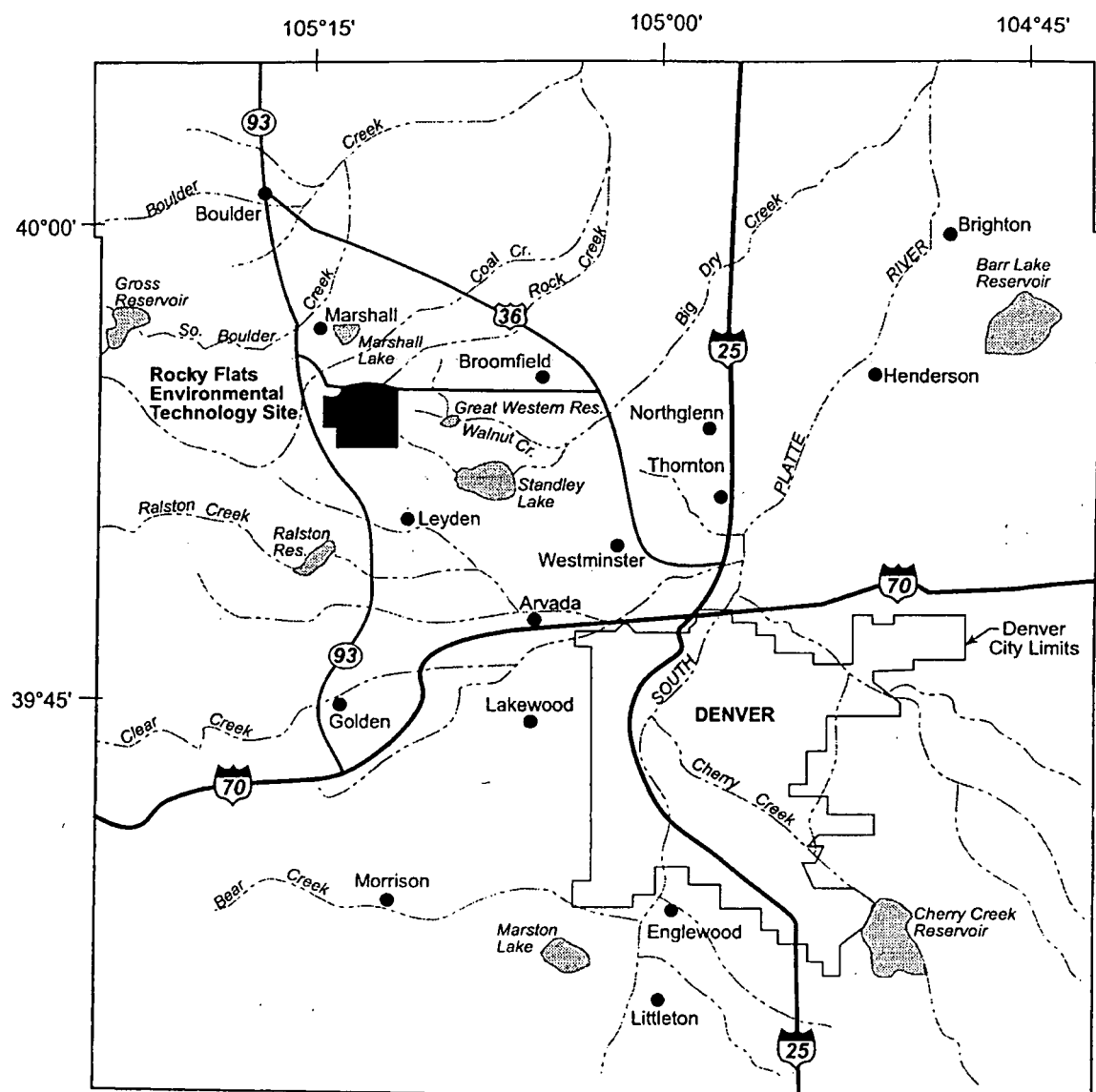
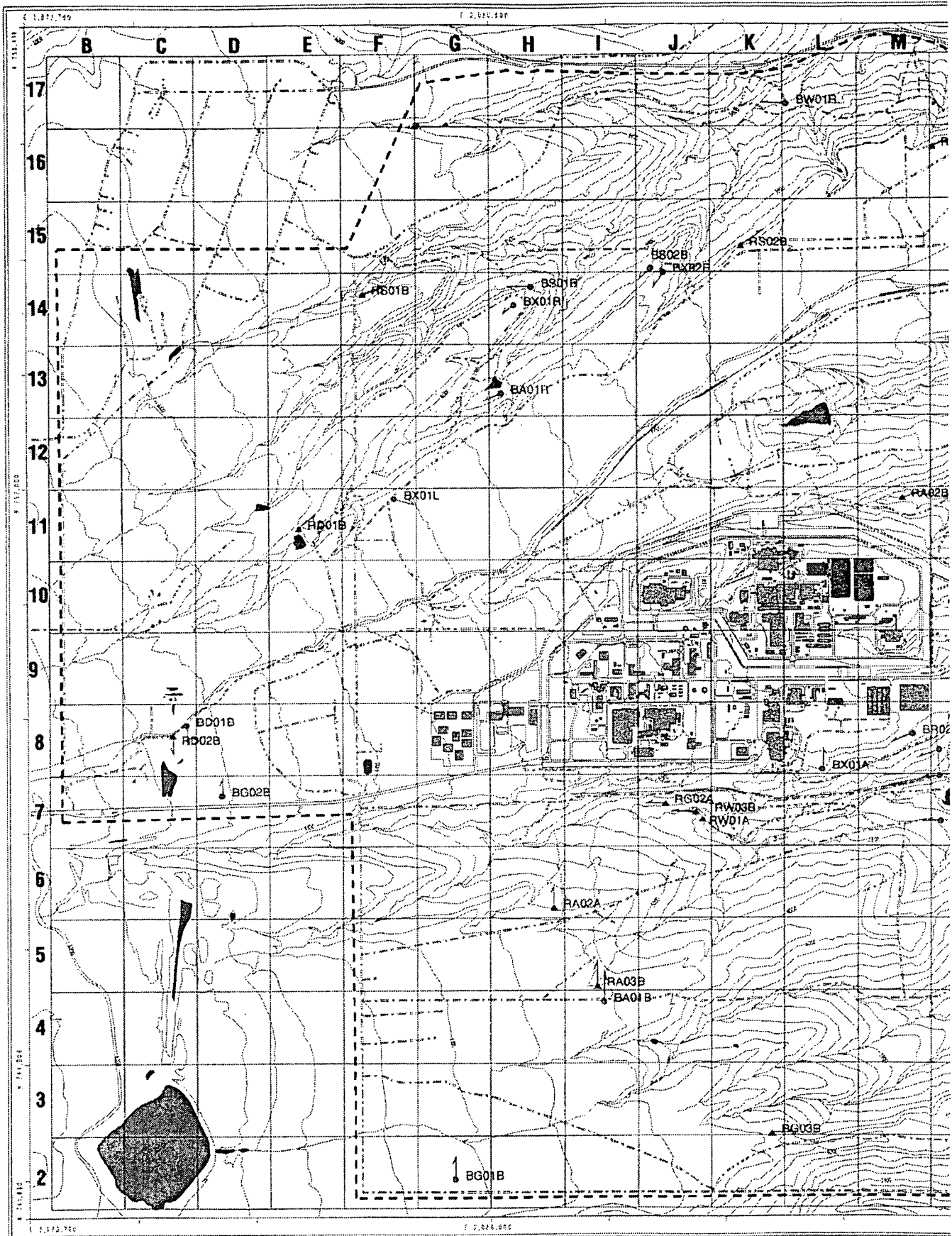


Figure 1-1. Location of the Rocky Flats Environmental Technology Site.



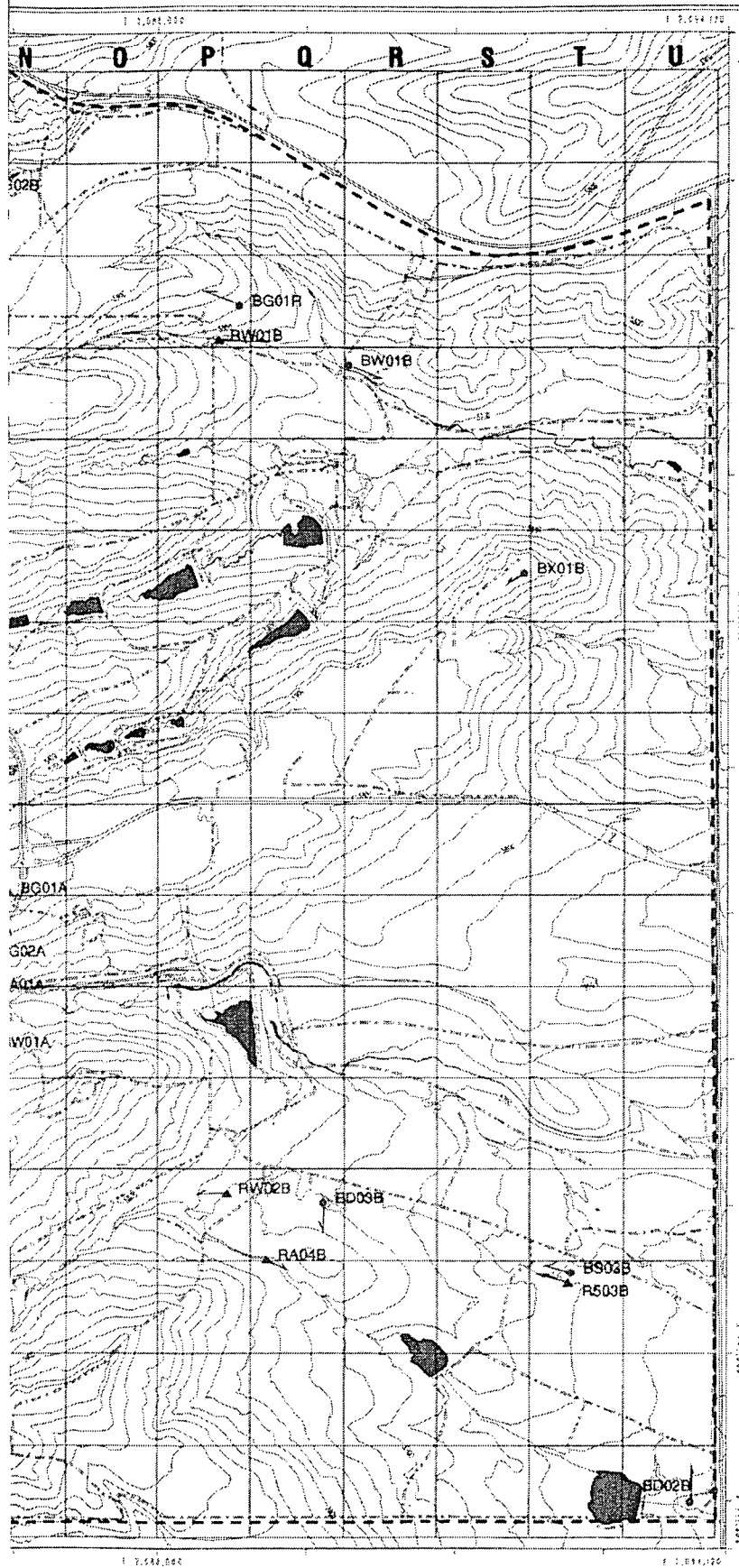


Figure 2-1.
Locations of relative
abundance and bird
survey route start points.

EXPLANATION

- Bird Transects
- ▲ Relative Abundance Transects

Standard Map Features

- Buildings or other structures
- Lakes and ponds
- Streams, ditches, or other drainage features
- Fences
- Contours (20' Intervals)
- - - Rocky Flats boundary
- Paved roads
- Dirt roads

DATA SOURCE:
Buildings, roads, and fences provided by
Rockwell Corp.
EG&G Rocky Flats, Inc. - 1991.
Hydrology provided by
USGS - Data unknown.



Rocky Flats Grid



Scale = 1 : 21330
1 inch represents approximately 1778 feet

600 0 1000 2000 ft

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD27

U.S. Department of Energy
Rocky Flats Environmental Technology Site

Prepared
by:



Rocky Mountain
Remediation Services, L.L.C.
Geographic Information Systems Group
Rocky Flats Environmental Technology Site
P.O. Box 454
Golden, CO 80402-0454

MAP ID: ***Draft***

February 10, 1997

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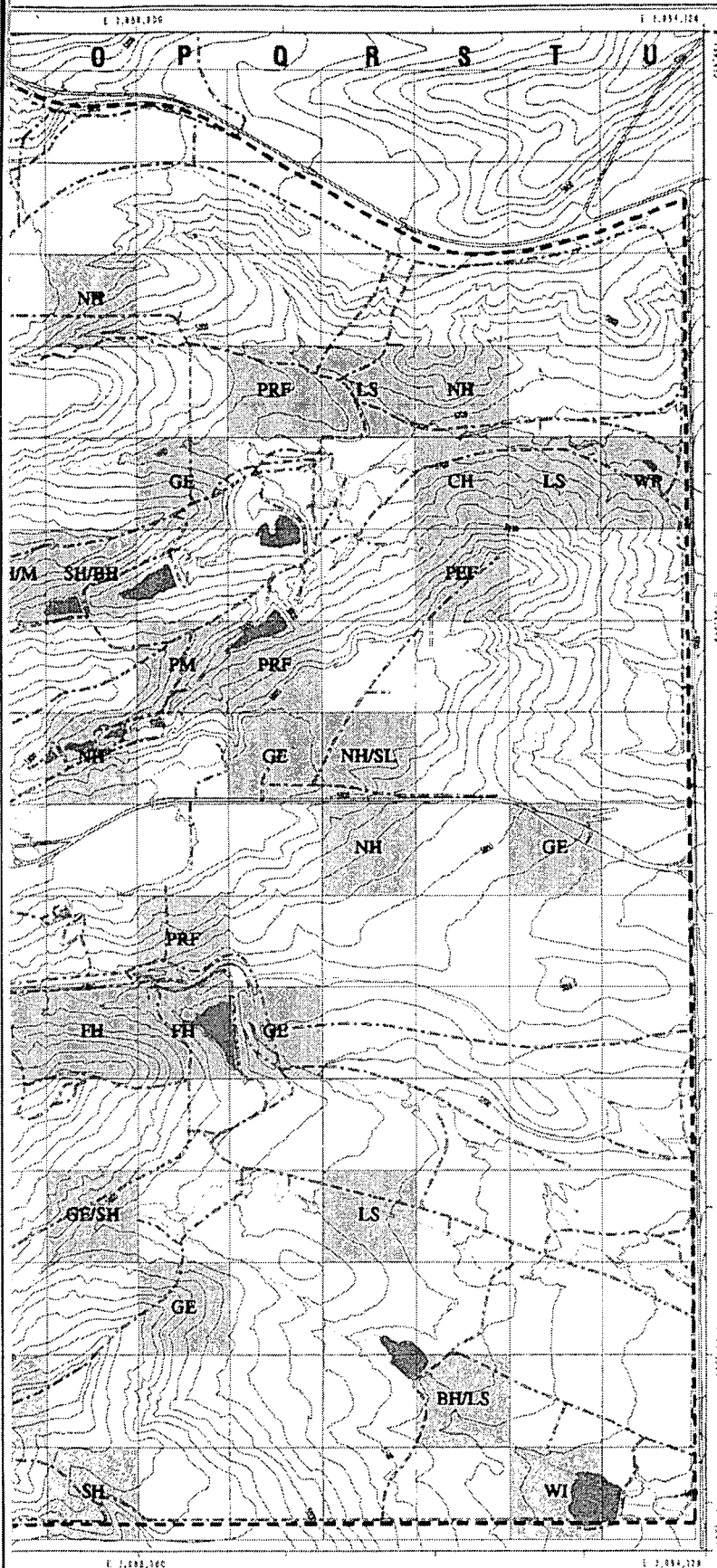


Figure 3-1.
Special - concern species
observations during 1996.

EXPLANATION

Observations

Herptiles

SL Eastern short-horned lizard
 LF Northern leopard frog

Mammals

PM Probie's meadows jumping mouse

Birds

SO Short-eared owl
 SH Swainson's hawk
 WI White-faced ibis
 NH Northern harrier
 GE Golden eagle
 BH Black-crowned night heron
 NG Northern goshawk
 SSH Sharp-shinned hawk
 WP American white pelican
 FH Ferruginous hawk
 BE Bald eagle
 LS Loggerhead shrike
 LO Long-eared owl
 M Merlin
 CH Cooper's hawk
 PRF Prairie falcon
 PER Peregrine falcon

Standard Map Features

Buildings or other structures

Lakes and ponds

Streams, ditches, or other drainage features

Contours (20' intervals)

Rocky Flats boundary

Paved roads

Dirt roads



Scale = 1 : 21330
 1 inch represents approximately 1778 feet



State Plane Coordinate Projection
 Colorado Central Zone
 Datum: NAD27

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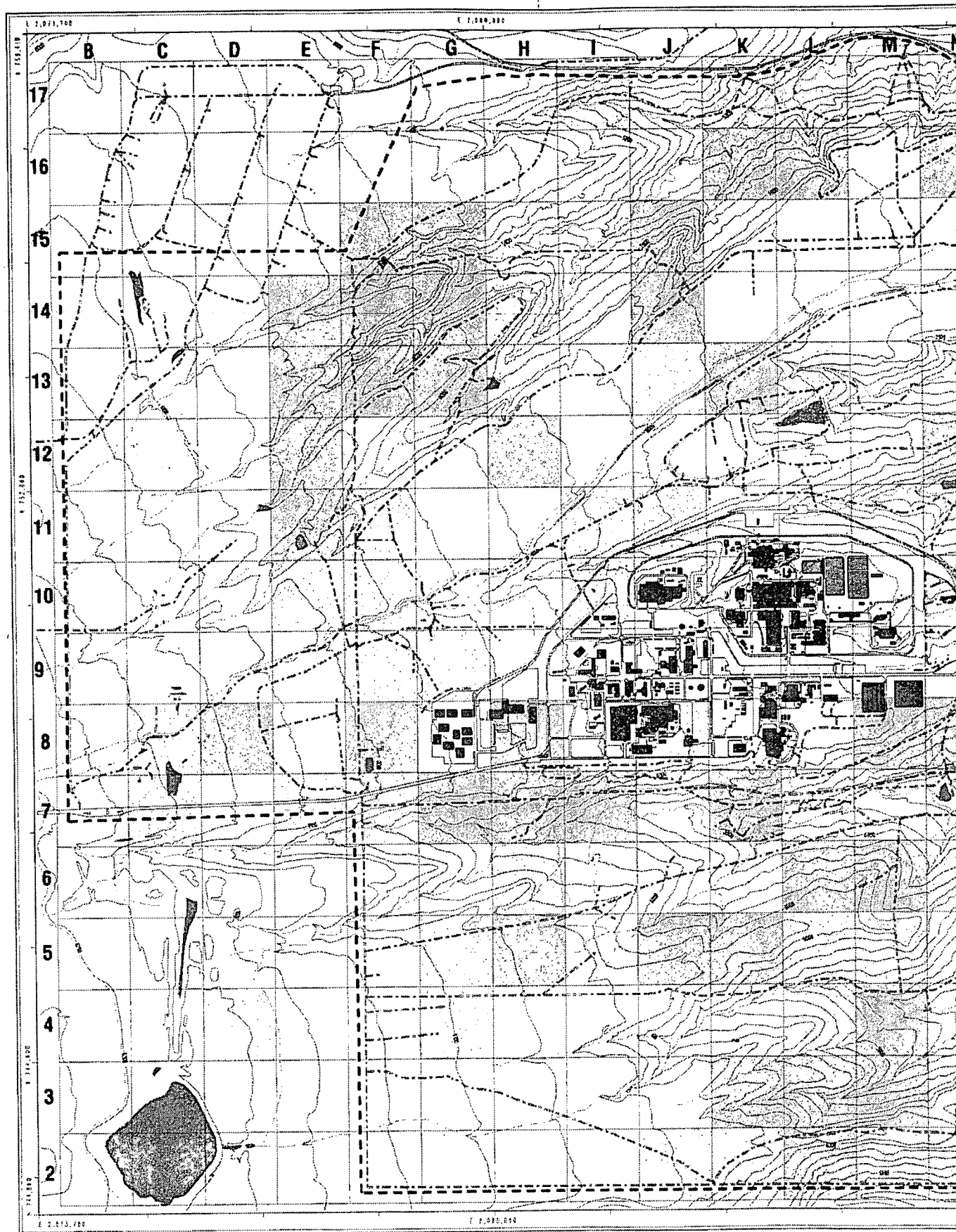


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 Golden, CO 80402-0464

MAP ID: fig3-1

March 24, 1997

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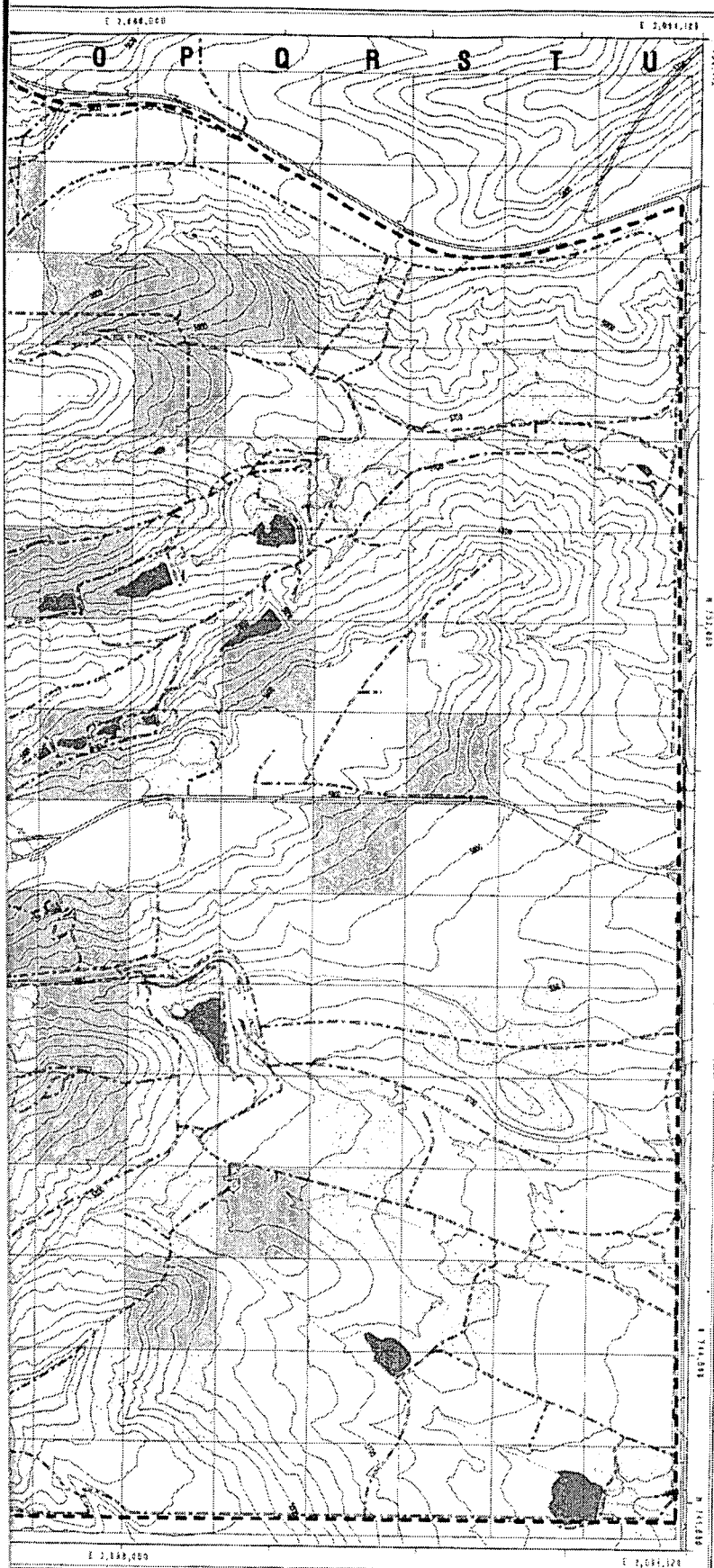


Figure 3-2.
Mule deer use areas
during 1996.

EXPLANATION

- Heavy Use
- Elevated Use
- Average Use

Standard Map Features

- Buildings or other structures
- Lakes and ponds
- Streams, ditches, or other drainage features
- Contours (20' intervals)
- Rocky Flats boundary
- Paved roads
- Dirt roads

DATA SOURCE:
Buildings, roads, and fences provided by
Facilities Eng.
5680 Rocky Flats, Inc. - 1991.
Hydrology provided by
USGS - data unknown



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Datum: NAD27

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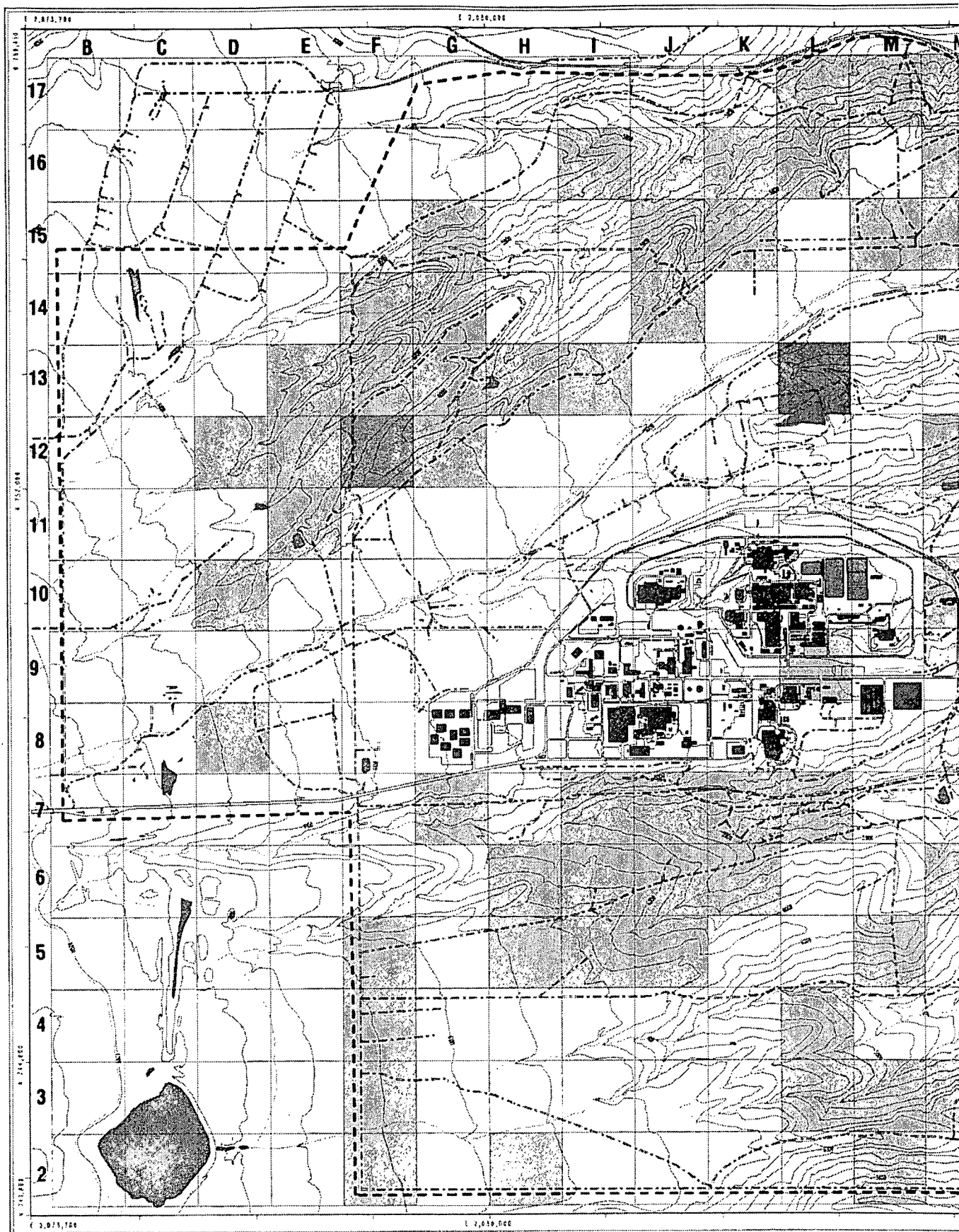


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MAP ID: fig3-2

March 24, 1997

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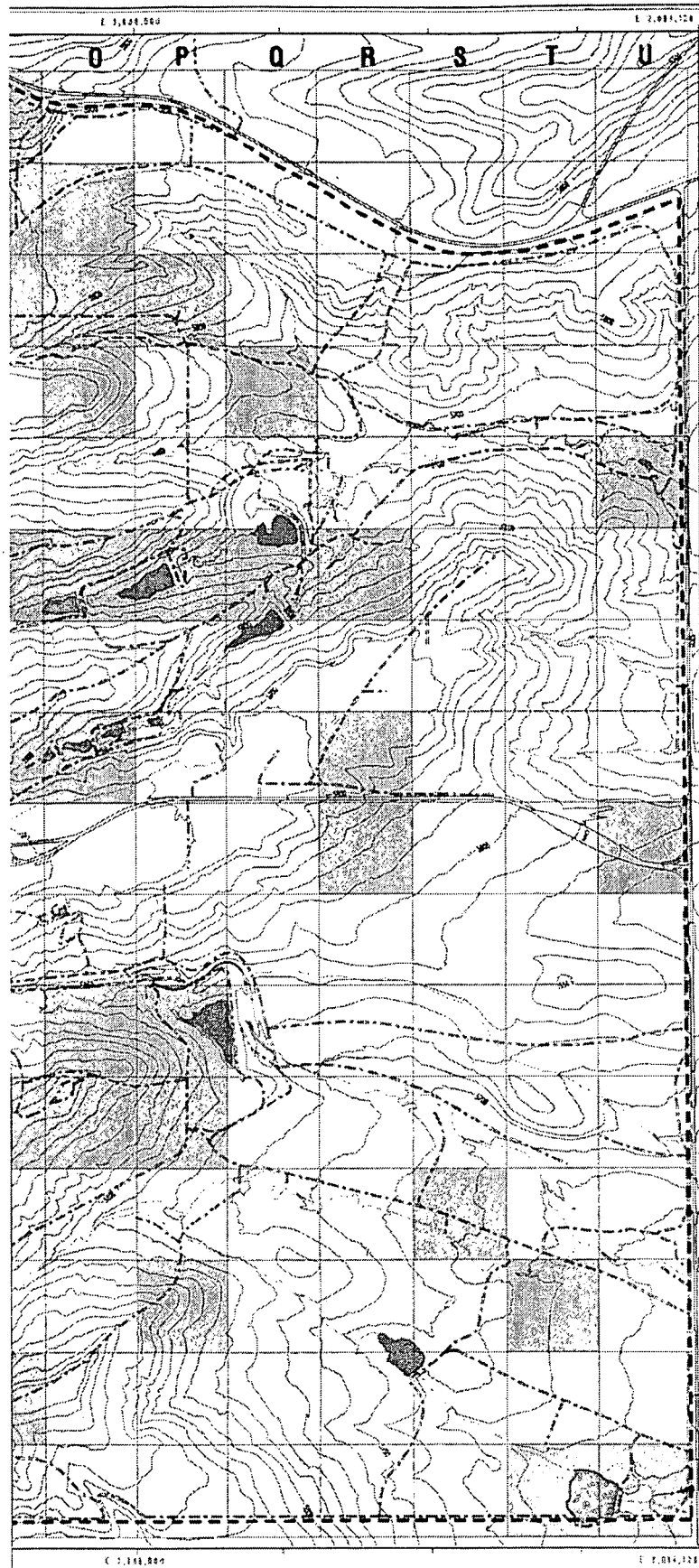


Figure 3-3.
Carnivore observations
during 1996.

EXPLANATION

- Coyote
- Raccoon
- Black bear
- Striped skunk
- Coyote & Mink
- Coyote & Raccoon
- Coyote & Black bear

Standard Map Features

- Buildings or other structures
- Lakes and ponds
- Streams, ditches, or other drainage features
- Contours (20' intervals)
- Rocky Flats boundary
- Paved roads
- Dirt roads

DATA SOURCE:
Buildings, roads, and fences provided by
Facilities Group,
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Hydrology provided by
USGS - data unknown



Scale = 1 : 21330
1 inch represents approximately 1778 feet



State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD27

U.S. Department of Energy
Rocky Flats Environmental Technology Site

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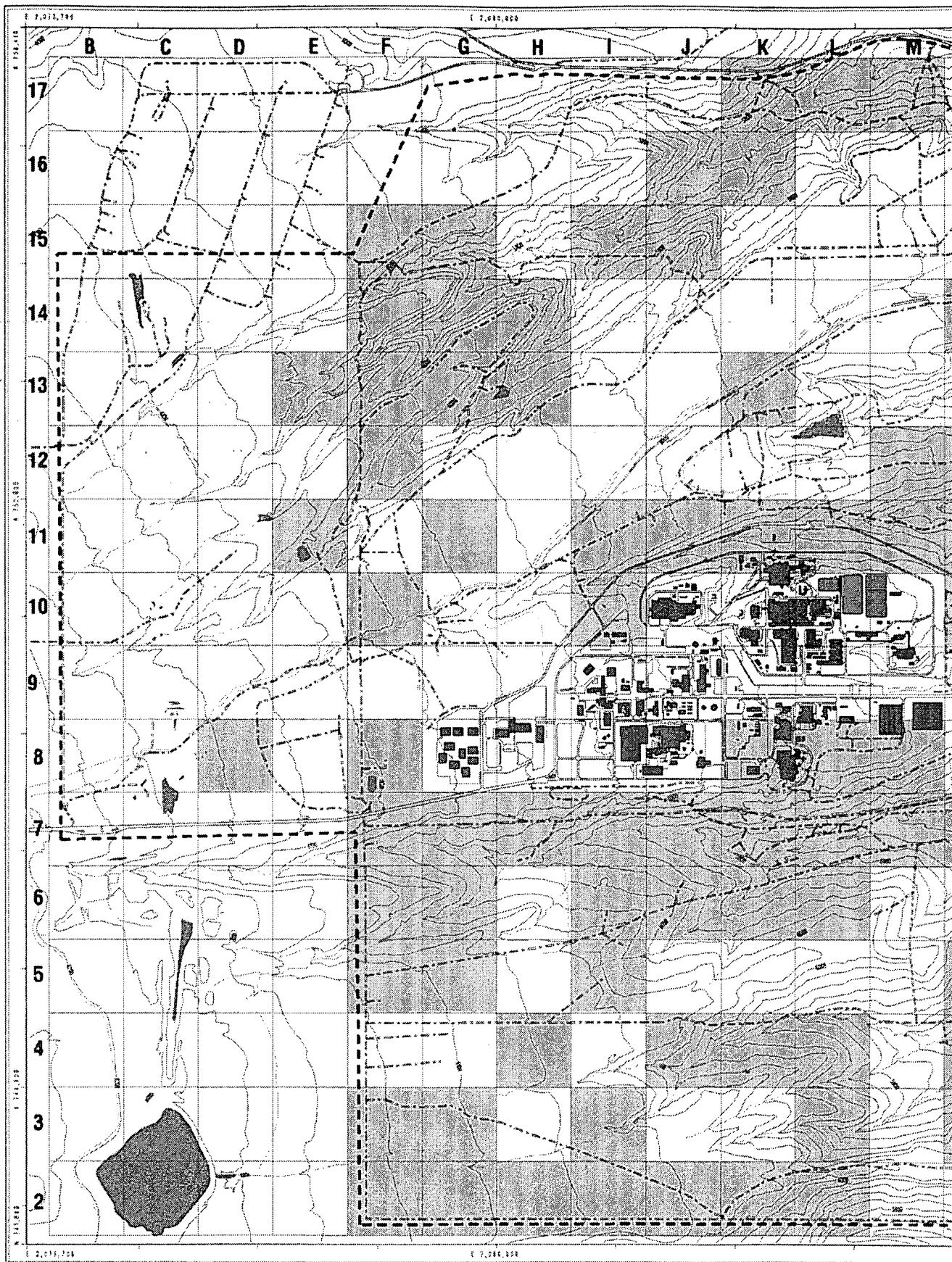


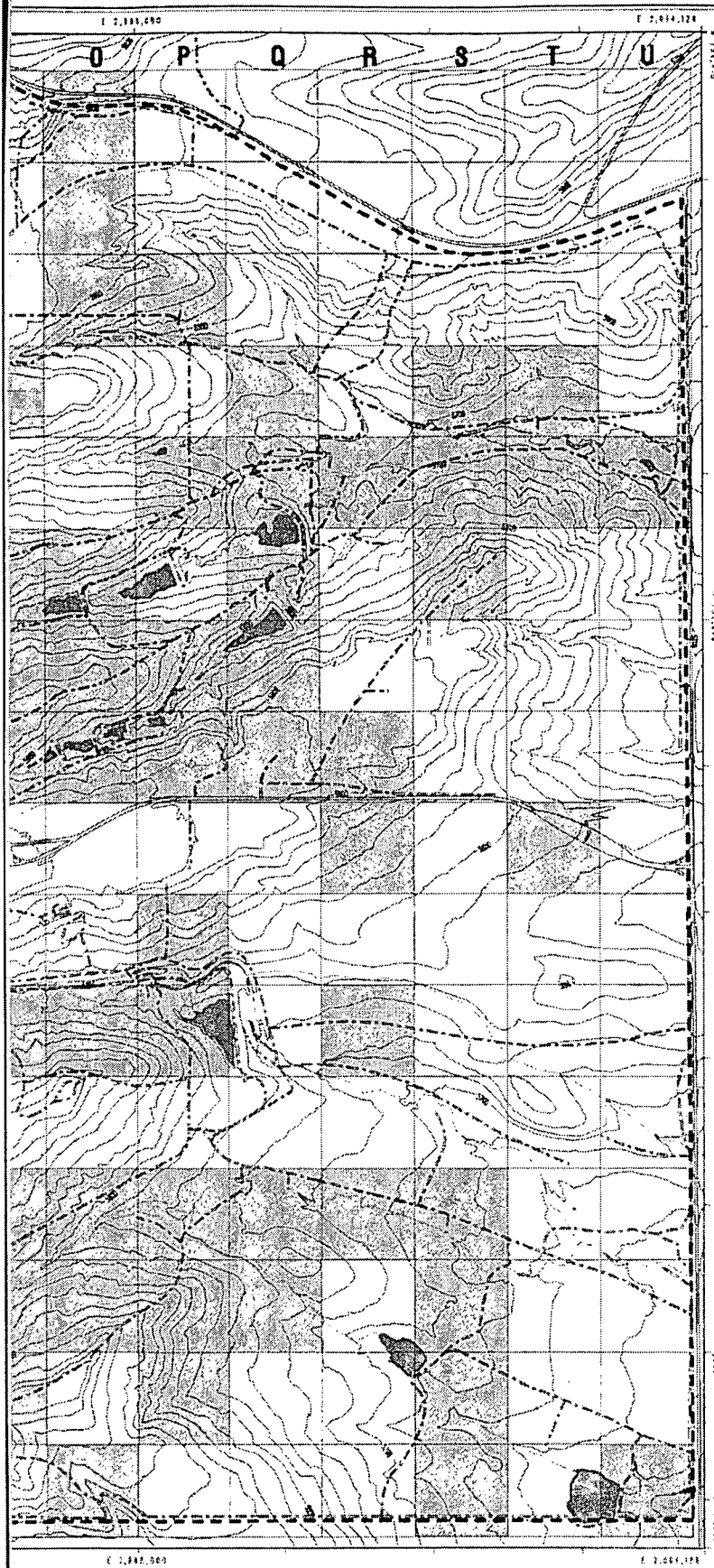
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Rocky Flats Environmental Technology Site
P.O. Box 444
Golden, CO 80422-0444

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March 24, 1997

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**Figure 3-4.
Raptor use areas
during 1996.**

EXPLANATION

Raptor use area (18 species)

Standard Map Features

Buildings or other structures

Lakes and ponds

Streams, ditches, or other
drainage features

Contours (20' Intervals)

Rocky Flats boundary

Paved roads

Dirt roads

DATA SOURCE:
Buildings, roads, and fences provided by
Facilities Eng.
EG&G Rocky Flats, Inc. - 1991.
Hydrology provided by
USGS - (data unknown)



Scale = 1 : 21330
1 inch represents approximately 1778 feet



State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD27

**U.S. Department of Energy
Rocky Flats Environmental Technology Site**

Prepared
by:



**Rocky Mountain
Remediation Services, L.L.C.**
Geographic Information Systems Group
Rocky Flats Environmental Technology Site
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Golden, CO 80402-0484

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March 25, 1997

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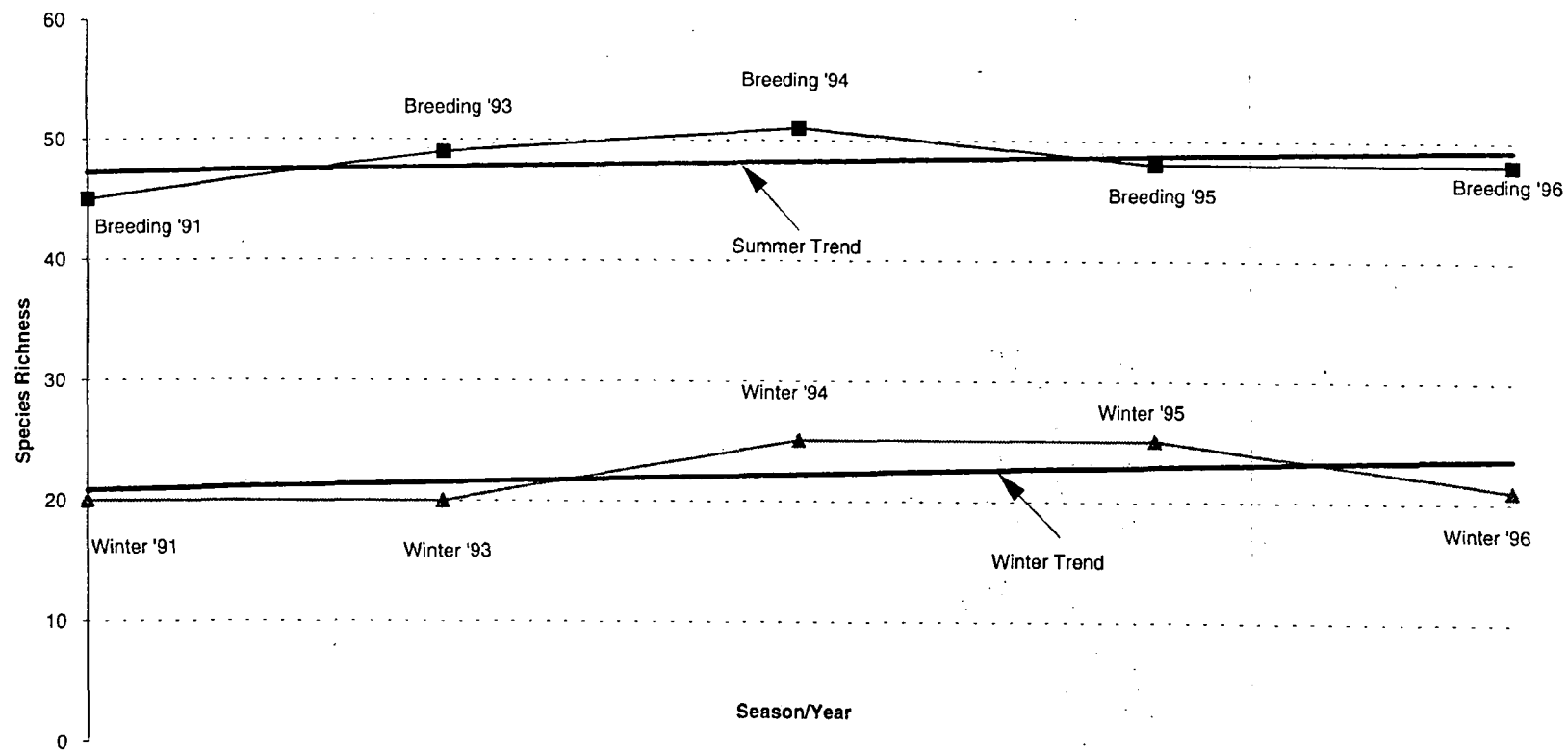


Figure 3-5. Seasonal and annual variation of bird species richness in all habitats, 1991, 1993-1996.

Breeding = month of June. Winter = Dec., Jan., & Feb

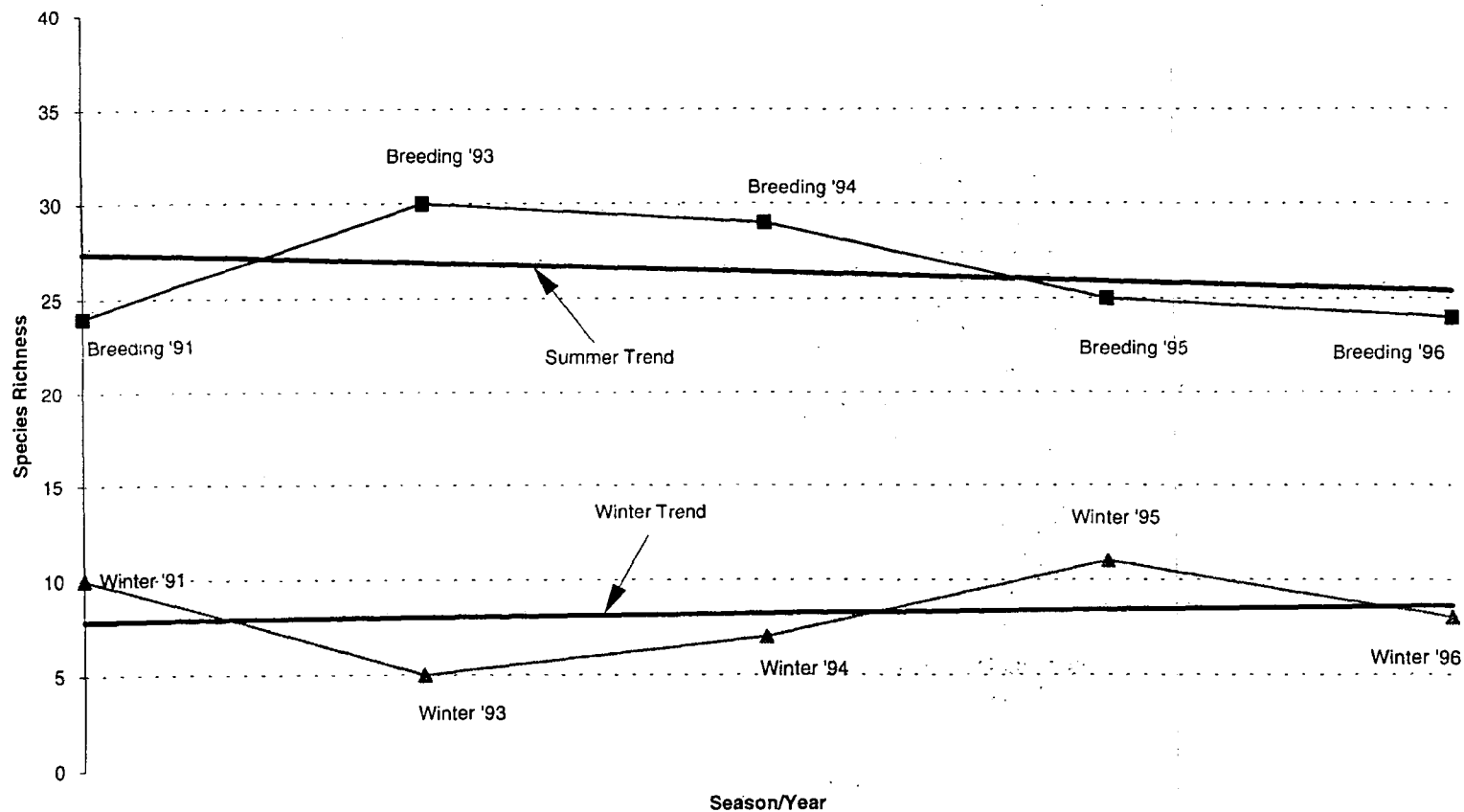


Figure 3-6. Seasonal and annual variation of bird species richness in wetland habitat, 1991, 1993-1996.
Breeding = month of June, Winter = Dec., Jan., & Feb

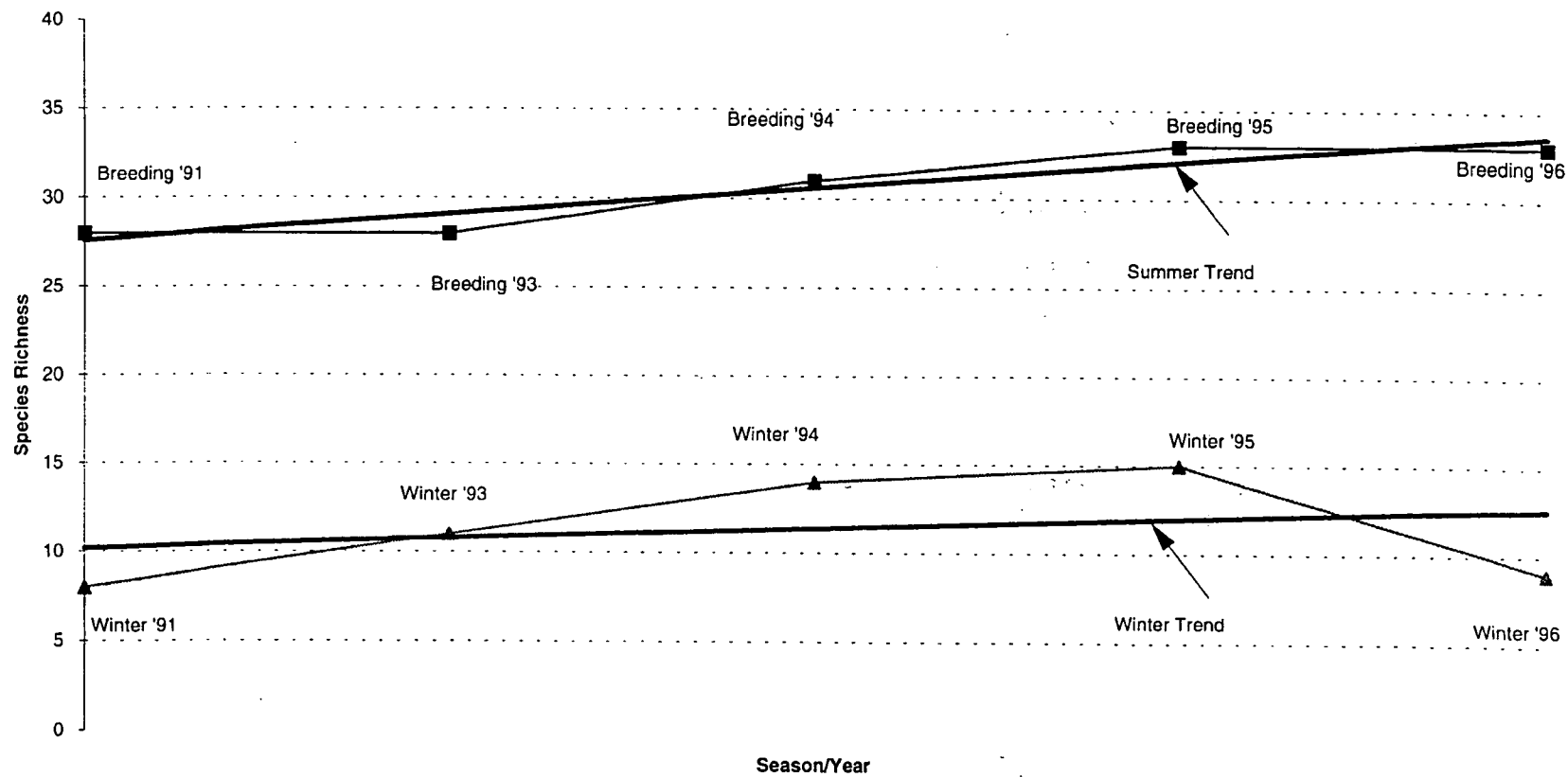


Figure 3-7. Seasonal and annual variation of bird species richness in riparian woodland complex habitat, 1991, 1993-1996.
Breeding = month of June, Winter = Dec., Jan., & Feb

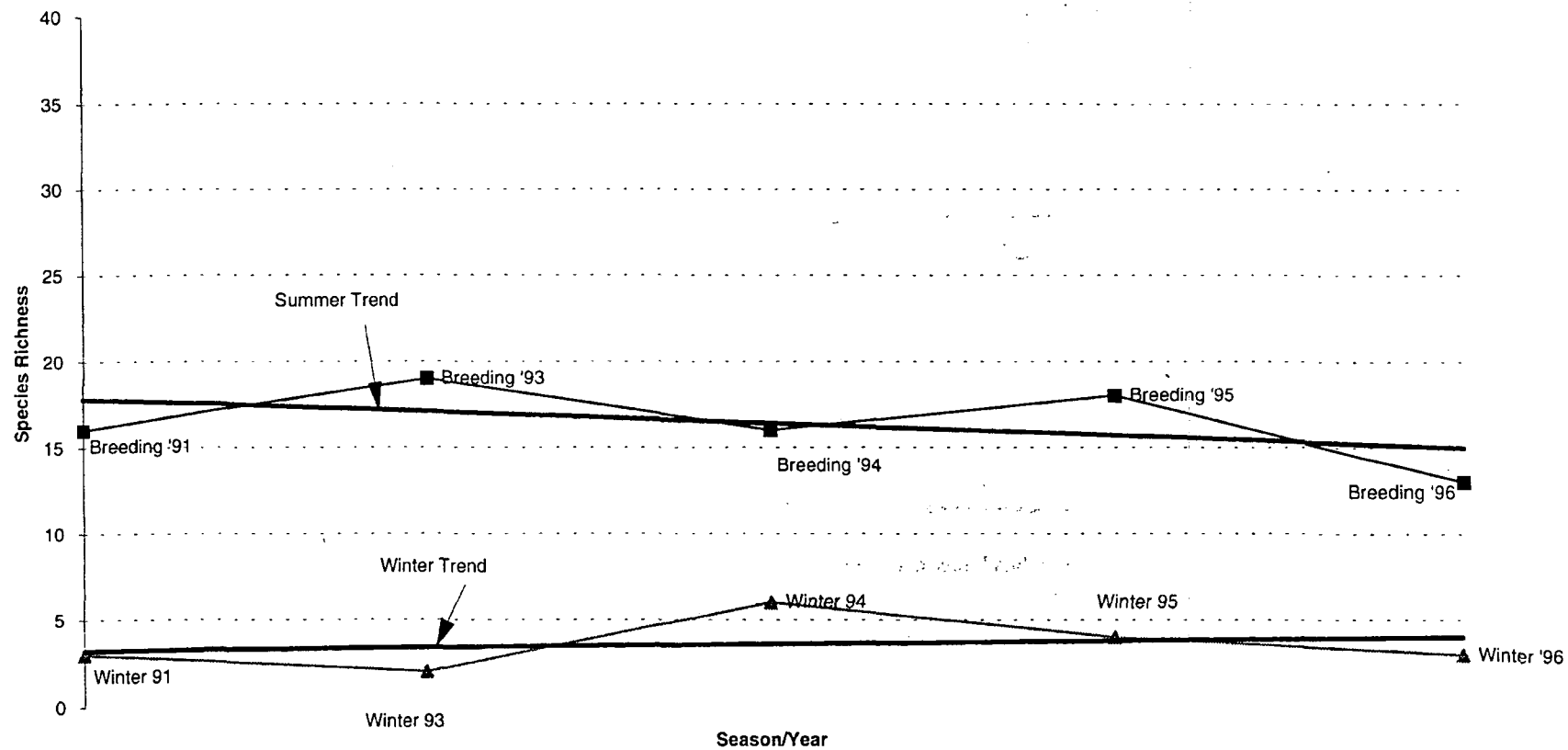


Figure 3-8. Seasonal and annual variation of bird species richness in riparian shrubland (Amorpha) habitat, 1991, 1993-1996.

Breeding = month of June, Winter = Dec., Jan., & Feb.

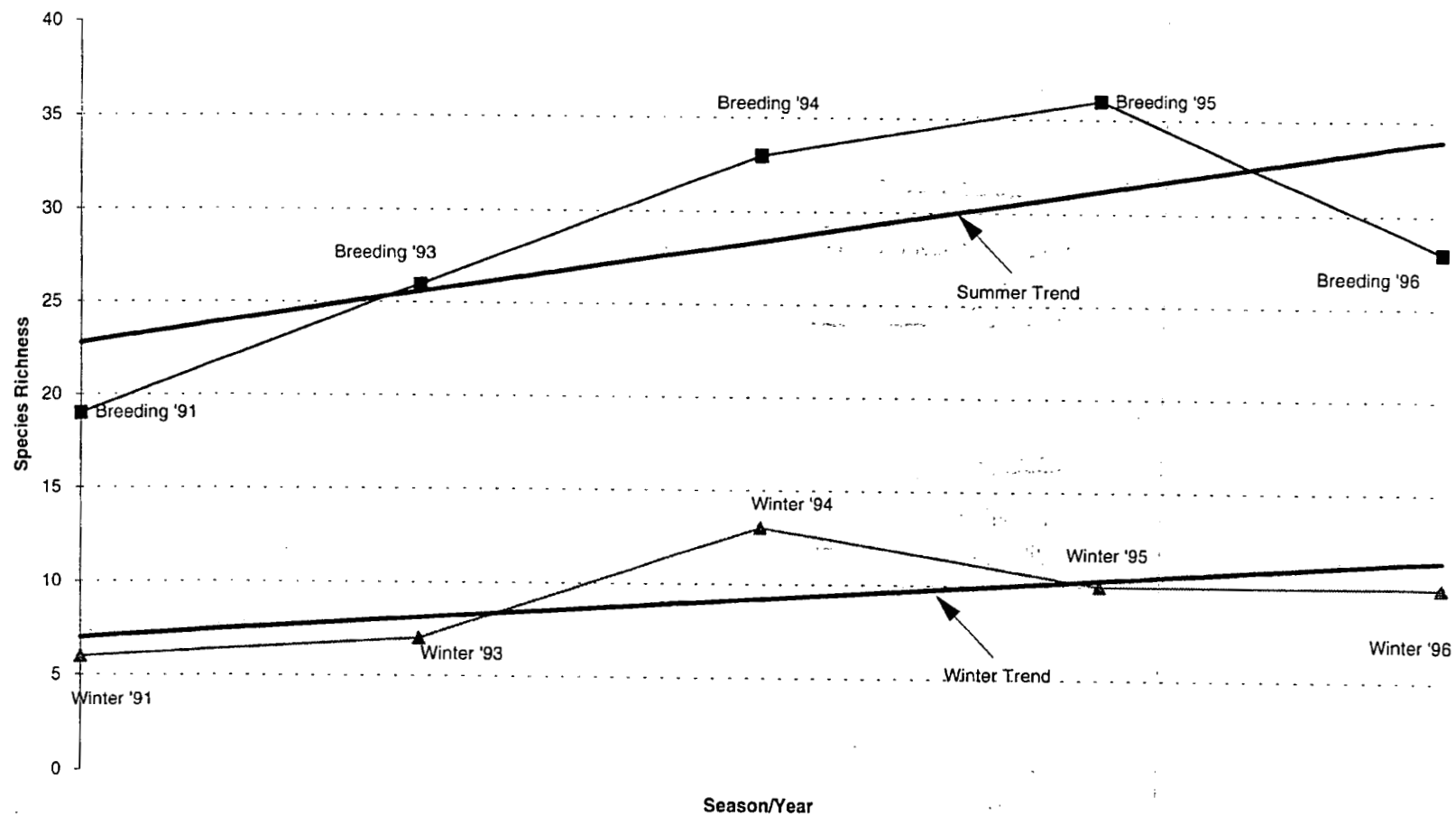


Figure 3-9. Seasonal and annual variation of bird species richness in tall upland shrub habitat, 1991, 1993-1996.
Breeding = month of June, Winter = Dec., Jan., & Feb.

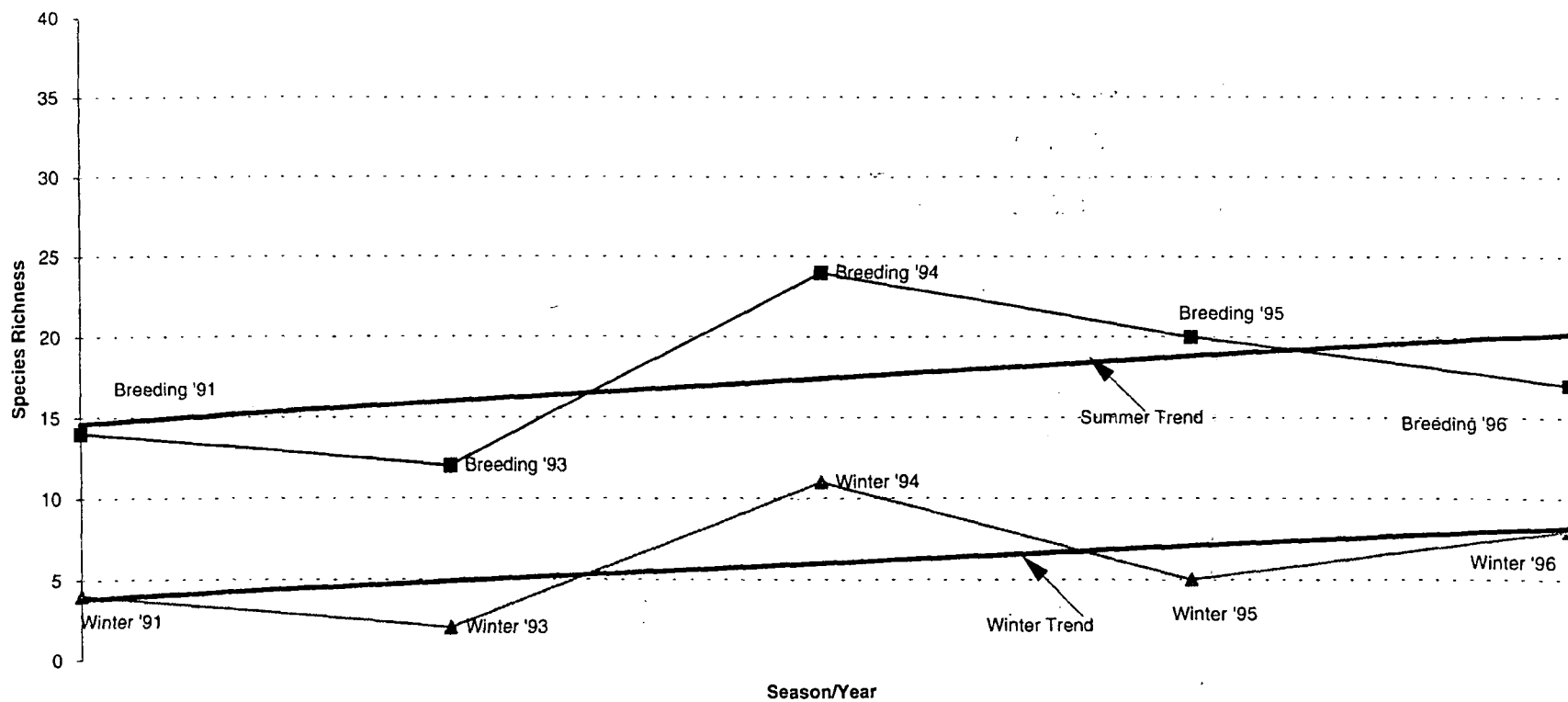


Figure 3-10. Seasonal and annual variation of bird species richness in mesic mixed grassland habitat, 1991, 1993-1996.
Breeding = month of June, Winter = Dec., Jan., & Feb.

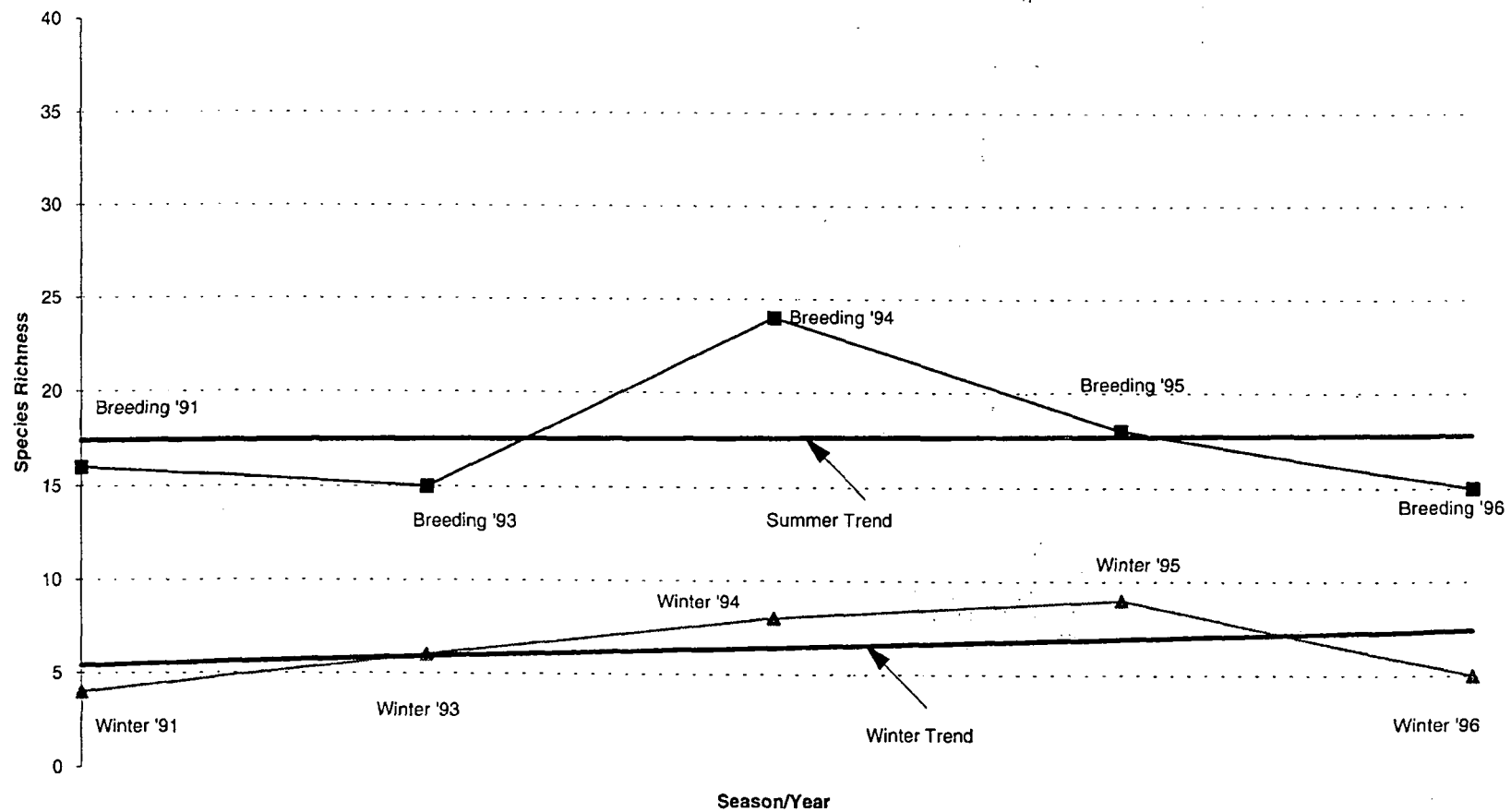


Figure 3-11. Seasonal and annual variation of bird species richness in xeric mixed grassland habitat, 1991, 1993-1996.
Breeding = month of June, Winter = Dec., Jan., & Feb

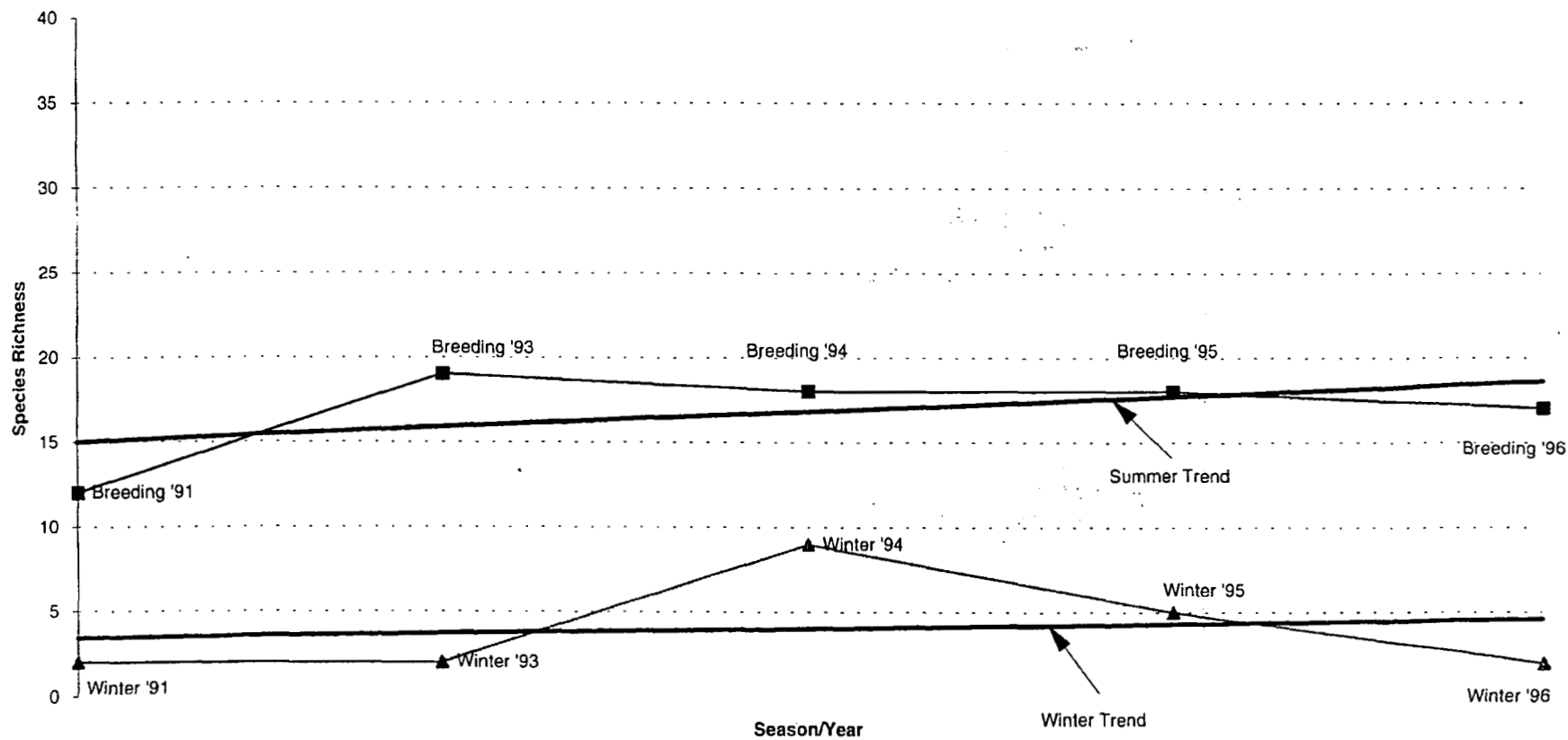


Figure 3-12. Seasonal and annual variation of bird species richness in reclaimed mixed grassland habitat, 1991, 1993-1996.

Breeding = month of June, Winter = Dec., Jan., & Feb

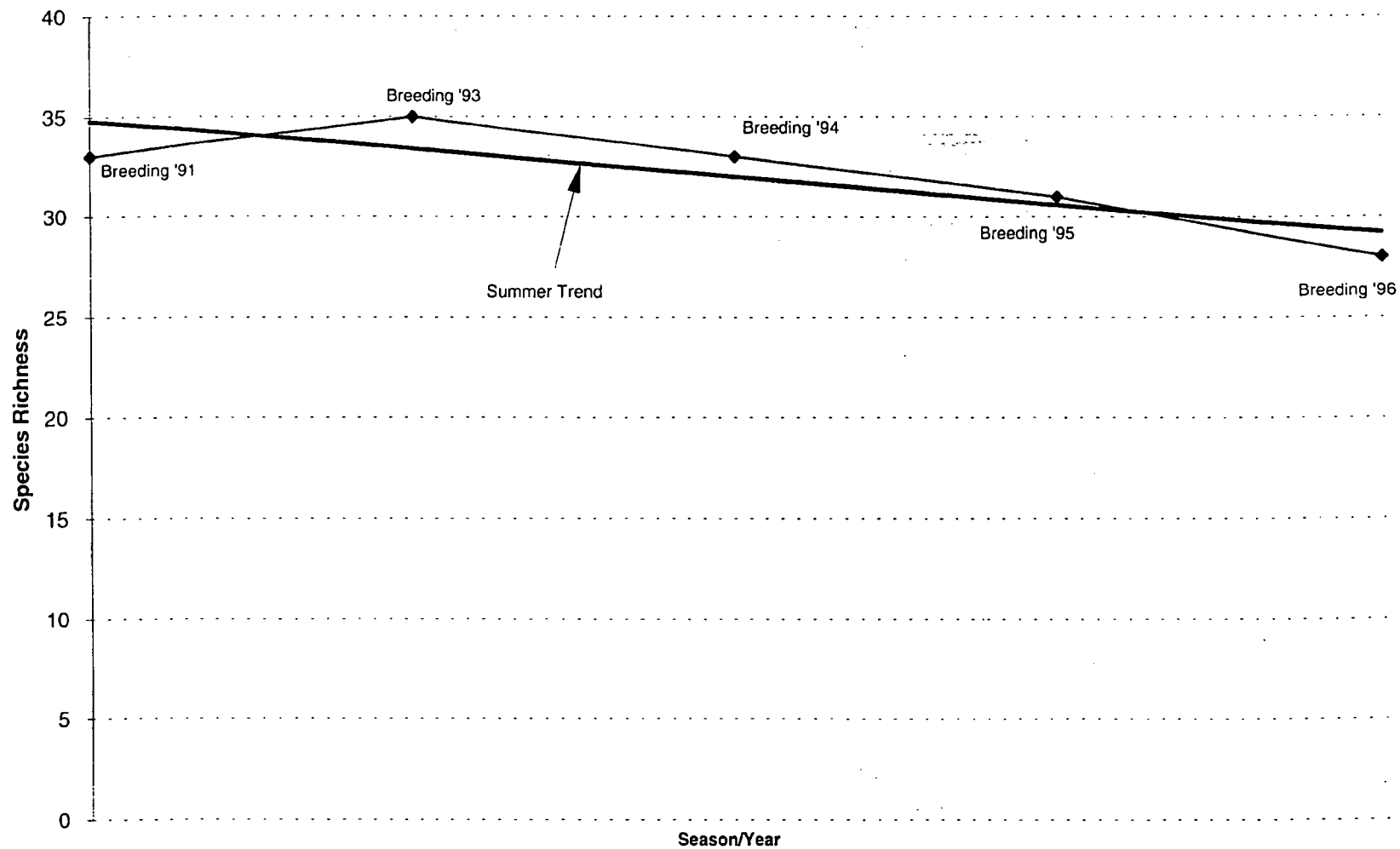
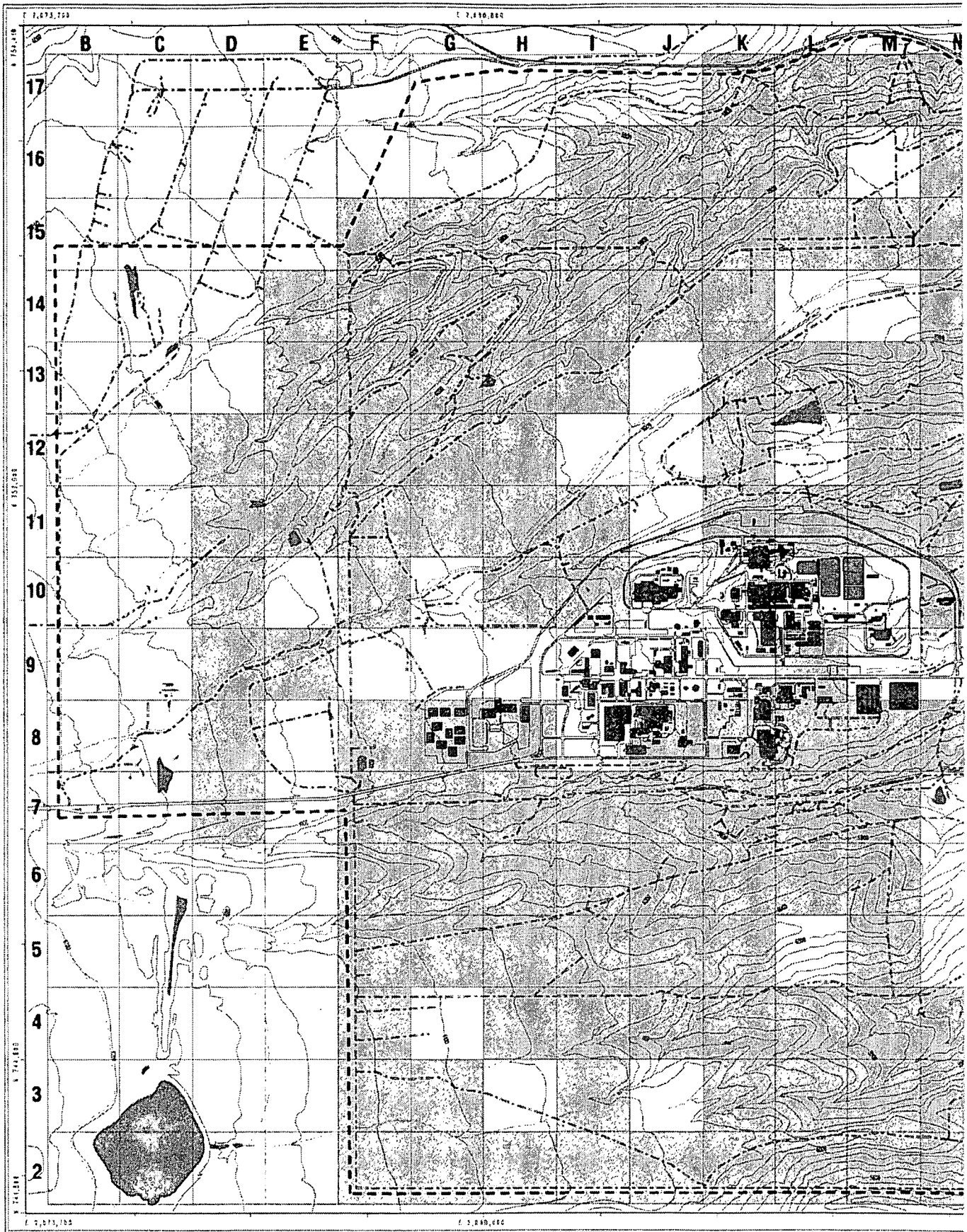


Figure 3-13. Trends in species richness of neotropical migrants in all habitats, 1991, 1993-1996.
Breeding = month of June



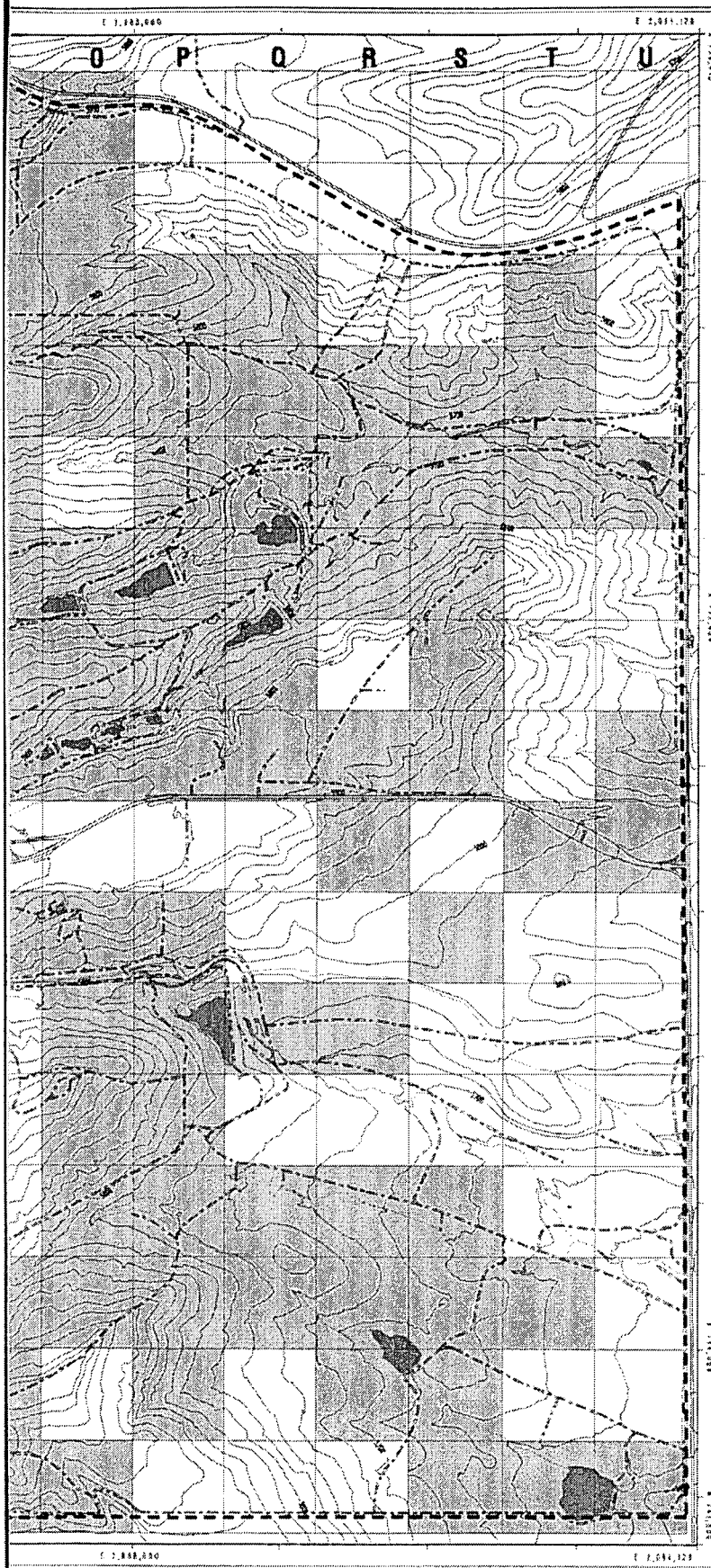


Figure 4-1.
Significant wildlife
species high use areas
during 1996.

EXPLANATION

- High use area
- Buildings or other structures
- Lakes and ponds
- Streams, ditches, or other drainage features
- Contours (20' Intervals)
- Rocky Flats boundary
- Paved roads
- Dirt roads

DATA SOURCE:
 Buildings, roads, and fences provided by
 Facilities Eng.
 8080 Rocky Flats, Inc. - 1991.
 Hydrology provided by
 USGS - data unknown



Scale = 1 : 21330
 1 inch represents approximately 1778 feet



State Plane Coordinate Projection
 Colorado Central Zone
 Datum: NAD27

U.S. Department of Energy
Rocky Flats Environmental Technology Site

Prepared
 by:



Rocky Mountain
Remediation Services, LLC
 Geographic Information Systems Group
 Rocky Flats Environmental Technology Site
 P.O. Box 414
 Golden, CO 80401-0414

MAP ID: 97-0051

March 25, 1997

c:\data\rmrs-map\new\m07-0051\fig-1.dwg

TABLE 3-1. SPECIAL-CONCERN SPECIES SEARCH-LIST FOR THE ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

Federal Endangered Species Known to Occur at Rocky Flats

Birds

American Peregrine Falcon (*Falco peregrinus*)¹(ST)²

Federal Threatened Species Known to Occur at Rocky Flats

Birds

Bald Eagle (*Haliaeetus leucocephalus*)³ (ST)

Federal Proposed Species Known to Occur at Rocky Flats

Mammals

Preble's Meadow Jumping Mouse (*Zapus hudsonius preblei*)^{5,8}(SC)

Small-footed Myotis (*Myotis subulatus* = *M. ciliolabrum*)^{5,6}

Federal Special-Concern Species Known to Occur at Rocky Flats

Herptiles

Eastern Short Horned Lizard (*Phrynosoma douglassii brevirostra*)^{4,5}

Birds

Northern Goshawk (*Accipiter gentilis*)^{5,6}

Baird's Sparrow (*Ammodramus bairdii*)⁵

Western Burrowing Owl (*Athene cunicularia hypugea*)^{4,5}

Ferruginous Hawk (*Buteo regalis*)^{4,5}(SC)⁷

Black Swift (*Cypseloides niger*)^{5,6}

Loggerhead Shrike (*Lanius ludovicianus*)^{4,5}

White-faced Ibis (*Plegadis chihi*)⁵

Mammals

Small-footed Myotis (*Myotis subulatus* = *M. ciliolabrum*)^{5,6}

Colorado Species of Special Concern Known to Occur at Rocky Flats

Amphibians

Northern Leopard Frog (*Rana pipiens*)(SC)

Birds

Long-billed Curlew (*Numenius americanus*)⁶(SC)

Greater Sandhill Crane (*Grus canadensis tibida*)⁶(ST)

American White Pelican (*Pelecanus erythrorhynchos*)⁴(SC)

Federal Endangered Species with Potential Habitat at Rocky Flats

Birds

Whooping Crane (*Grus americana*)

Least Tern (*Sterna antillarum*)

Piping Plover (*Charadrius melodus*)

Mammals

Black-footed Ferret (*Mustela nigripes*)⁹

Federal Threatened Species with Potential Habitat at Rocky Flats

Plants

Ute Ladies'-tresses (*Spiranthes diluvialis*)¹⁰

Insects

Pawnee Montane Skipper (*Hesperia leonardus montana*)

**TABLE 3-1. SPECIAL-CONCERN SPECIES SEARCH-LIST FOR THE ROCKY FLATS ENVIRONMENTAL
TECHNOLOGY SITE**

Federal Endangered Species Known to Occur at Rocky Flats

Birds

American Peregrine Falcon (*Falco peregrinus*)¹(ST)²

Federal Threatened Species Known to Occur at Rocky Flats

Birds

Bald Eagle (*Haliaeetus leucocephalus*)³ (ST)

Federal Proposed Species Known to Occur at Rocky Flats

Mammals

Preble's Meadow Jumping Mouse (*Zapus hudsonius preblei*)^{5,8}(SC)
Small-footed Myotis (*Myotis subulatus* = *M. ciliolabrum*)^{5,6}

Federal Special-Concern Species Known to Occur at Rocky Flats

Herptiles

Eastern Short Horned Lizard (*Phrynosoma douglassii brevirostra*)^{4,6}

Birds

Northern Goshawk (*Accipiter gentilis*)^{5,6}
Baird's Sparrow (*Ammodramus bairdi*)⁵
Western Burrowing Owl (*Athene cunicularia hypugea*)^{4,5}
Ferruginous Hawk (*Buteo regalis*)^{4,5}(SC)⁷
Black Swift (*Cypseloides niger*)^{5,6}
Loggerhead Shrike (*Lanius ludovicianus*)^{4,5}
White-faced Ibis (*Plegadis chihii*)⁵

Mammals

Preble's Meadow Jumping Mouse (*Zapus hudsonius preblei*)^{5,8}(SC)
Small-footed Myotis (*Myotis subulatus* = *M. ciliolabrum*)^{5,6}

Colorado Species of Special Concern Known to Occur at Rocky Flats

Amphibians

Northern Leopard Frog (*Rana pipiens*)(SC)

Birds

Long-billed Curlew (*Numenius americanus*)⁶(SC)
Greater Sandhill Crane (*Grus canadensis tibida*)⁶(ST)
American White Pelican (*Pelecanus erythrorhynchos*)⁴(SC)

Federal Endangered Species with Potential Habitat at Rocky Flats

Birds

Whooping Crane (*Grus americana*)
Least Tern (*Sterna antillarum*)
Piping Plover (*Charadrius melodus*)

Mammals

Black-footed Ferret (*Mustela nigripes*)⁹

Federal Threatened Species with Potential Habitat at Rocky Flats

Plants

Ute Ladies'-tresses (*Spiranthes diluvialis*)¹⁰

Insects

Pawnee Montane Skipper (*Hesperia leonardus montana*)

TABLE 3-1. SPECIAL-CONCERN SPECIES SEARCH-LIST FOR THE ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

Federal Candidate Species with Potential Habitat at Rocky Flats

Plants

Colorado Butterfly Plant (*Gaura neomexicana* var. *coloradensis*)(C1)¹¹

Birds

Mountain Plover (*Charadrius montanus*)(C1)

Southwestern Willow Flycatcher (*Empidonax traillii extimus*)(C1)

Federal Special-Concern Species with Potential Habitat at Rocky Flats

Plants

Bell's Twinpod (*Physaria bellii*)⁵

Tulip Gentian (*Eustoma grandiflora*)⁶

Adder's Mouth Orchid (*Malaxis brachypoda*)⁶

Insects

Regal Fritillary (*Speyeria idalia*)⁶

Fish

Plains Topminnow (*Fundulus sciadicus*)⁶

Birds

Western Snowy Plover (*Charadrius alexandrinus nivosus*)⁶

Black Tern (*Chlidonias niger*)⁶

Mammals

Spotted Bat (*Euderma maculatum*)⁶

Long-eared Myotis (*Myotis evotis*)⁶

Fringed Bat (*Myotis thysanodes*)⁶

Long-legged Myotis (*Myotis volans*)⁶

Pale Townsend's Big-eared Bat (*Plecotus townsendii pallescens*)⁶

Plains Spotted Skunk (*Spilogale putorius interrupta*)⁶

Swift Fox (*Vulpes velox*)^{9,6}

Colorado Species of Special Concern with Potential Habitat at Rocky Flats

Fish

Common Shiner (*Notropis cornutus*)(SC)

Stonecat (*Noturus flavus*)(SC)

Birds

Barrow's Goldeneye (*Bucephala islandica*)(SC)

Plains Sharp-tailed Grouse (*Tympanuchus phasianellus jamesi*)(SE)¹²

Watch-Listed Species Known to Occur at Rocky Flats

Birds

Black-crowned Night-heron (*Nycticorax nycticorax*)¹³

Cooper's Hawk (*Accipiter cooperii*)¹³

Sharp-shinned Hawk (*Accipiter striatus*)¹³

Golden Eagle (*Aquila chrysaetos*)¹³

Swainson's Hawk (*Buteo swainsoni*)¹⁴

Northern Harrier (*Circus cyaneus*)¹⁶

Merlin (*Falco columbarius*)¹³

Prairie Falcon (*Falco mexicanus*)¹³

Short-eared Owl (*Asio flammeus*)¹⁶

Long-eared Owl (*Asio otus*)¹³

Olive-sided Flycatcher (*Contopus borealis*)¹⁶

Chestnut-sided Warbler (*Dendroica pensylvanica*)¹⁶

Virginia's Warbler (*Vermivora virginiae*)¹⁶

Baird's Sparrow (*Ammodramus bairdi*)¹⁶

Grasshopper Sparrow (*Ammodramus savannarum*)¹⁶

Lark Bunting (*Calamospiza melanocorys*)¹⁶

Chestnut-collared Longspur (*Calcarius ornatus*)¹⁶

Field Sparrow (*Spizella pusilla*)¹⁶

TABLE 3-1. SPECIAL-CONCERN SPECIES SEARCH-LIST FOR THE ROCKY FLATS ENVIRONMENTAL
TECHNOLOGY SITE

NOTES:

1. The species *Falco peregrinus* is listed as endangered wherever found in the coterminous 48 states. Some subspecies are listed separately.
2. Colorado State threatened species (ST).
3. The USFWS has down-listed the Bald Eagle to threatened status.
4. This species is resident or regularly visits Rocky Flats.
5. In February 1996, the U. S. Fish and Wildlife Service (USFWS) revised the list of candidate species to include only proposed and C1 species. All former candidate species except C1 species are now classified unofficially as "at-risk" and are still considered special-concern species. The search-list includes these species because they may be upgraded to C-1 species at any time.
6. The species has been observed infrequently on Rocky Flats, in some cases the observation made was of an individual flying over the Site, not of an individual on the ground.
7. Colorado species of special concern (SC).
8. A petition to list this species was reviewed by the USFWS. The 90-Day Finding found this petition to have merit, and the USFWS may pursue listing of the species.
9. This species was previously collected near Rocky Flats.
10. These species have historically used areas in the vicinity, and suitable feeding or residential habitat exists at Rocky Flats.
11. Federal candidate species for listing as threatened or endangered(C1)
12. Colorado State endangered species.
13. Colorado Natural Heritage Program list of rare and imperiled species.
14. Species of special interest to the Colorado Division of Wildlife due to recent winter range die-off of the species.
15. Birds listed by the USFWS as "Migratory Nongame Birds of Management Concern: the 1995 List" that occur at the Site.

Note: Candidate species lists are under constant revision. As data are reviewed by the USFWS, species are added to and removed from this list on a year-round basis. This list for Rocky Flats Environmental Technology Site is updated annually.

Sources:

Colorado Natural Heritage Program 1996 List of Rare and Imperiled Animals, Plants, and Natural Communities.

Federal Register, February 28, 1996, pp. 7596-7613.

Migratory Nongame Birds of Management Concern in the United States: the 1995 List.

TABLE 3-2. SPECIAL-CONCERN SPECIES HABITAT USE DURING 1996

SEASON	SPECIES	SPEC CODE	ADMN AREA	HABITAT	HABTYPE	GROUP SIZE
SPRING						
AVIFAUNA						
	COOPER'S HAWK	ACCO1	BZ	RIPARIAN WOODLAND	110	1
	GOLDEN EAGLE	AQCH1	EA	MESIC MIXED GRASSLAND	322	1
	SHORT-EARED OWL	ASFL1	BZ	SHORT MARSH	20	1
	SHORT-EARED OWL	ASFL1	BZ	TALL UPLAND SHRUBLAND	230	1
	LONG-EARED OWL	ASOT1	BZ	RIPARIAN WOODLAND	110	1
	FERRUGINOUS HAWK	BURE1	BZ	IMPOUNDMENT	54	1
	FERRUGINOUS HAWK	BURE1	BZ	RIPARIAN WOODLAND	110	1
	SWAINSON'S HAWK	BUSW1	BZ	SHORT MARSH	20	1
	SWAINSON'S HAWK	BUSW1	BZ	RIPARIAN WOODLAND	110	5
	SWAINSON'S HAWK	BUSW1	BZ	MESIC MIXED GRASSLAND	322	2
	SWAINSON'S HAWK	BUSW1	BZ	XERIC MIXED GRASSLAND	323	1
	NORTHERN HARRIER	CICY1	BZ	TALL UPLAND SHRUBLAND	230	1
	BALD EAGLE	HALE1	BZ	RIPARIAN WOODLAND	110	6
	LOGGERHEAD SHRIKE	LALU1	BZ	SHORT MARSH	20	1
	LOGGERHEAD SHRIKE	LALU1	BZ	RIPARIAN WOODLAND	110	1
	LOGGERHEAD SHRIKE	LALU1	BZ	XERIC MIXED GRASSLAND	323	1
	LOGGERHEAD SHRIKE	LALU1	BZ	RECLAIMED GRASSLAND	324	1
	BLACK-CROWNED NIGHT HERON	NYNY1	BZ	IMPOUNDMENT	54	5
	BLACK-CROWNED NIGHT HERON	NYNY1	BZ	RIPARIAN WOODLAND	110	3
	BLACK-CROWNED NIGHT HERON	NYNY1	BZ	ROCK AND GRAVEL PILES (RIPRAP)	530	1
MAMMALS						
	PREBLE'S MEADOW JUMPING MOUSE	ZAHU1	BZ	RIPARIAN SHRUBLAND-SALIX	212	21
	PREBLE'S MEADOW JUMPING MOUSE	ZAHU1	BZ	TALL UPLAND SHRUBLAND	230	9
SUMMER						
AVIFAUNA						
	NORTHERN GOSHAWK	ACGE1	BZ	RIPARIAN WOODLAND	110	1
	GOLDEN EAGLE	AQCH1	BZ	MESIC MIXED GRASSLAND	322	1
	SHORT-EARED OWL	ASFL1	BZ	TALL UPLAND SHRUBLAND	230	1
	FERRUGINOUS HAWK	BURE1	BZ	RIPARIAN WOODLAND	110	1
	SWAINSON'S HAWK	BUSW1	BZ	RIPARIAN WOODLAND	110	12
	SWAINSON'S HAWK	BUSW1	BZ	XERIC MIXED GRASSLAND	323	3
	NORTHERN HARRIER	CICY1	BZ	ANNUAL GRASS/FORB	410	1
	PEREGRINE FALCON	FAPE1	BZ	XERIC MIXED GRASSLAND	323	1
	BALD EAGLE	HALE1	EA	RIPARIAN WOODLAND	110	3

TABLE 3-2. SPECIAL-CONCERN SPECIES HABITAT USE DURING 1996

SEASON	SPECIES	SPEC CODE	ADMN AREA	HABITAT	HABTYPE	GROUP SIZE
HERPTILES	LOGGERHEAD SHRIKE	LALU1	BZ	MESIC MIXED GRASSLAND	322	1
	BLACK-CROWNED NIGHT HERON	NYNY1	BZ	IMPOUNDMENT	54	3
	BLACK-CROWNED NIGHT HERON	NYNY1	BZ	RIPARIAN WOODLAND	110	2
	AMERICAN WHITE PELICAN	PEER1	BZ	MESIC MIXED GRASSLAND	322	14
	SHORT-HORNED LIZARD	PHDO1	BZ	XERIC MIXED GRASSLAND	323	2
	WHITE-FACED IBIS	PLCH1	BZ	IMPOUNDMENT MUDFLAT	93	2
	NORTHERN LEOPARD FROG	RAPI1	BZ	PERSISTENT STREAM POOL	46	1
	NORTHERN LEOPARD FROG	RAPI1	BZ	MESIC MIXED GRASSLAND	322	1
	PREBLE'S MEADOW JUMPING MOUSE	ZAHU1	BZ	RIPARIAN SHRUBLAND-SALIX	212	3
FALL						
AVIFAUNA						
	COOPER'S HAWK	ACCO1	BZ	RIPARIAN WOODLAND	110	1
	SHARP-SHINNED HAWK	ACST1	BZ	MESIC MIXED GRASSLAND	322	1
	GOLDEN EAGLE	AQCH1	BZ	RIPARIAN WOODLAND	110	1
	GOLDEN EAGLE	AQCH1	BZ	MESIC MIXED GRASSLAND	322	2
	LONG-EARED OWL	ASOT1	BZ	TALL UPLAND SHRUBLAND	230	2
	FERRUGINOUS HAWK	BURE1	EA	RIPARIAN WOODLAND	110	1
	SWAINSON'S HAWK	BUSW1	BZ	XERIC MIXED GRASSLAND	323	2
	NORTHERN HARRIER	CICY1	BZ	WET MEADOW	10	2
	NORTHERN HARRIER	CICY1	BZ	SHORT MARSH	20	1
	NORTHERN HARRIER	CICY1	BZ	RIPARIAN SHRUBLAND-SALIX	212	2
	NORTHERN HARRIER	CICY1	BZ	TALL UPLAND SHRUBLAND	230	1
	NORTHERN HARRIER	CICY1	BZ	RECLAIMED GRASSLAND	324	1
	PRAIRIE FALCON	FAME1	BZ	MESIC MIXED GRASSLAND	322	1
	BALD EAGLE	HALE1	EA	RIPARIAN WOODLAND	110	1
WINTER						
AVIFAUNA						
	GOLDEN EAGLE	AQCH1	EA	RIPARIAN WOODLAND	110	3
	GOLDEN EAGLE	AQCH1	BZ	TALL UPLAND SHRUBLAND	230	1
	GOLDEN EAGLE	AQCH1	BZ	MESIC MIXED GRASSLAND	322	2
	GOLDEN EAGLE	AQCH1	BZ	XERIC MIXED GRASSLAND	323	3
	SHORT-EARED OWL	ASFL1	BZ	MESIC MIXED GRASSLAND	322	1
	FERRUGINOUS HAWK	BURE1	BZ	RIPARIAN WOODLAND	110	1
	NORTHERN HARRIER	CICY1	BZ	SHORT MARSH	20	1

TABLE 3-2. SPECIAL-CONCERN SPECIES HABITAT USE DURING 1996

SEASON	SPECIES	SPEC CODE	ADMN AREA	HABITAT	HABTYPE	GROUP SIZE
	NORTHERN HARRIER	CICY1	BZ	SHORT MARSH	20	1
	NORTHERN HARRIER	CICY1	BZ	RIPARIAN WOODLAND	110	1
	NORTHERN HARRIER	CICY1	BZ	MESIC MIXED GRASSLAND	322	4
	NORTHERN HARRIER	CICY1	BZ	XERIC MIXED GRASSLAND	323	2
	MERLIN	FACO1	BZ	RECLAIMED GRASSLAND	324	1
	PRAIRIE FALCON	FAME1	BZ	RIPARIAN WOODLAND	110	1
	PRAIRIE FALCON	FAME1	BZ	MESIC MIXED GRASSLAND	322	2
	BALD EAGLE	HALE1	BZ	RIPARIAN WOODLAND	110	1
	BALD EAGLE	HALE1	EA	RIPARIAN WOODLAND	110	5
	LOGGERHEAD SHRIKE	LALU1	BZ	RIPARIAN WOODLAND	110	4
	LOGGERHEAD SHRIKE	LALU1	BZ	RECLAIMED GRASSLAND	324	1

TABLE 3-3. BIG GAME MAMMAL HABITAT USE DURING 1996

SEASON	SPECIES NAME	SPEC CODE	ADMN AREA	HABITAT NAME	HAB TYPE	TOTAL OBSERVED	PERCENT BY HABITAT
SPRING							
ELK	ELK	CEEL1	BZ	MESIC MIXED GRASSLAND	322	1	
	% TOTAL OBSERVED IN MESIC MIXED GRASSLAND HABITAT-SPRING						100
MULE DEER	MULE DEER	ODHE1	BZ	SHORT MARSH	20	9	
	% TOTAL OBSERVED IN SHORT MARSH HABITAT-SPRING						2
	MULE DEER	ODHE1	BZ	RIPARIAN WOODLAND	110	11	
	% TOTAL OBSERVED IN RIPARIAN WOODLAND HABITAT-SPRING						3
	MULE DEER	ODHE1	BZ	TREE PLANTINGS	130	10	
	% TOTAL OBSERVED IN TREE PLANTING HABITAT-SPRING						3
	MULE DEER	ODHE1	BZ	TALL UPLAND SHRUBLAND	230	67	
	% TOTAL OBSERVED INTALL UPLAND SHRUBLAND HABITAT-SPRING						17
	MULE DEER	ODHE1	BZ	MESIC MIXED GRASSLAND	322	221	
	MULE DEER	ODHE1	BZ	XERIC MIXED GRASSLAND	323	71	
	% TOTAL OBSERVED IN NATIVE GRASSLANDS HABITAT-SPRING						75
WHITE-TAILED DEER	WHITE-TAILED DEER	ODVI1	BZ	MESIC MIXED GRASSLAND	322	9	
	% TOTAL OBSERVED IN MESIC MIXED GRASSLAND HABITAT-SPRING						100
SUMMER							
MULE DEER	MULE DEER	ODHE1	BZ	WET MEADOW	10	3	
	MULE DEER	ODHE1	BZ	SHORT MARSH	20	5	
	MULE DEER	ODHE1	BZ	TALL MARSH	30	7	
	MULE DEER	ODHE1	BZ	IMPOUNDMENT MUDFLAT	93	2	
	% TOTAL OBSERVED IN WETLAND HABITAT-SUMMER						4
	MULE DEER	ODHE1	BZ	RIPARIAN WOODLAND	110	35	
	MULE DEER	ODHE1	BZ	RIPARIAN SHRUBLAND-AMORPHA	211	6	
	MULE DEER	ODHE1	BZ	RIPARIAN SHRUBLAND-SALIX	212	18	
	% TOTAL OBSERVED IN RIPARIAN HABITAT-SUMMER						14
	MULE DEER	ODHE1	BZ	SHORT UPLAND SHRUBLAND	220	6	
	MULE DEER	ODHE1	BZ	TALL UPLAND SHRUBLAND	230	93	
	% TOTAL OBSERVED IN UPLAND SHRUBLAND HABITAT-SUMMER						24
	MULE DEER	ODHE1	BZ	MESIC MIXED GRASSLAND	322	167	
	MULE DEER	ODHE1	BZ	XERIC MIXED GRASSLAND	323	49	
	% TOTAL OBSERVED IN NATIVE GRASSLAND HABITAT-SUMMER						51

TABLE 3-3. BIG GAME MAMMAL HABITAT USE DURING 1996

SEASON	SPECIES NAME	SPEC CODE	ADMN AREA	HABITAT NAME	HAB TYPE	TOTAL OBSERVED	PERCENT BY HABITAT
	MULE DEER	ODHE1	BZ	RECLAIMED GRASSLAND	324	23	
	% TOTAL OBSERVED IN RECLAIMED GRASSLAND HABITAT-SUMMER						6
	MULE DEER	ODHE1	BZ	ANNUAL GRASS/FORB	410	3	
	MULE DEER	ODHE1	BZ	DISTURBED BARREN LANDS	420	4	
	% TOTAL OBSERVED IN DISTURBED HABITAT-SUMMER						1
	MULE X WHITE-TAILED DEER						
	MULE X WHITE-TAILED DEER	HEXVI	BZ	TALL UPLAND SHRUBLAND	230	1	
	% TOTAL OBSERVED IN TALL UPLAND SHRUBLAND HABITAT-SUMMER						100
	WHITE-TAILED DEER						
	WHITE-TAILED DEER	ODVI1	BZ	RIPARIAN SHRUBLAND-AMORPHA	211	3	
	WHITE-TAILED DEER	ODVI1	BZ	RIPARIAN SHRUBLAND-SALIX	212	5	
	% TOTAL OBSERVED IN RIPARIAN HABITAT-SUMMER						50
	WHITE-TAILED DEER	ODVI1	BZ	TALL UPLAND SHRUBLAND	230	1	
	% TOTAL OBSERVED IN TALL UPLAND SHRUBLAND HABITAT-SPRING						6
	WHITE-TAILED DEER	ODVI1	BZ	MESIC MIXED GRASSLAND	322	5	
	WHITE-TAILED DEER	ODVI1	BZ	XERIC MIXED GRASSLAND	323	1	
	% TOTAL OBSERVED IN NATIVE GRASSLAND HABITAT-SUMMER						38
	WHITE-TAILED DEER	ODVI1	BZ	RECLAIMED GRASSLAND	324	1	
	% TOTAL OBSERVED IN RECLAIMED GRASSLAND HABITAT-SUMMER						6
FALL							
ELK	ELK	CEEL1	BZ	TALL MARSH	30	1	
	% TOTAL OBSERVED IN WETLAND HABITAT-FALL						100
MULE DEER	MULE DEER	ODHE1	BZ	WET MEADOW	10	2	
	MULE DEER	ODHE1	BZ	SHORT MARSH	20	11	
	MULE DEER	ODHE1	BZ	TALL MARSH	30	4	
	% TOTAL OBSERVED IN WETLAND HABITAT-FALL						3
	MULE DEER	ODHE1	BZ	RIPARIAN WOODLAND	110	11	
	MULE DEER	ODHE1	BZ	RIPARIAN SHRUBLAND	210	1	
	MULE DEER	ODHE1	BZ	RIPARIAN SHRUBLAND-AMORPHA	211	8	
	MULE DEER	ODHE1	BZ	RIPARIAN SHRUBLAND-SALIX	212	22	
	% TOTAL OBSERVED IN RIPARIAN HABITAT-FALL						6
	MULE DEER	ODHE1	BZ	SHORT UPLAND SHRUBLAND	220	1	
	MULE DEER	ODHE1	BZ	TALL UPLAND SHRUBLAND	230	96	
	MULE DEER	ODHE1	BZ	SAVANNAH SHRUBLAND	260	9	
	% TOTAL OBSERVED IN UPLAND SHRUBLAND HABITAT-FALL						16

TABLE 3-3. BIG GAME MAMMAL HABITAT USE DURING 1996

SEASON	SPECIES NAME	SPEC CODE	ADMN AREA	HABITAT NAME	HAB TYPE	TOTAL OBSERVED	PERCENT BY HABITAT
	MULE DEER	ODHE1	BZ	MESIC MIXED GRASSLAND	322	302	
	MULE DEER	ODHE1	BZ	XERIC MIXED GRASSLAND	323	146	
	% TOTAL OBSERVED IN NATIVE GRASSLAND HABITAT-FALL						69
	MULE DEER	ODHE1	BZ	RECLAIMED GRASSLAND	324	26	
	% TOTAL OBSERVED IN RECLAIMED GRASSLAND HABITAT-FALL						4
	MULE DEER	ODHE1	BZ	ANNUAL GRASS/FORB	410	7	
	MULE DEER	ODHE1	BZ	ROCK AND GRAVEL PILES	530	1	
	% TOTAL OBSERVED IN DISTURBED HABITAT-FALL						2
	MULE X WHITE-TAILED DEER						
	MULE X WHITE-TAILED DEER	HEXVI	BZ	TALL UPLAND SHRUBLAND	230	1	
	% TOTAL OBSERVED IN TALL UPLAND SHRUBLAND HABITAT-FALL						100
WHITE-TAILED DEER							
	WHITE-TAILED DEER	ODVI1	BZ	RIPARIAN WOODLAND	110	2	
	WHITE-TAILED DEER	ODVI1	BZ	RIPARIAN SHRUBLAND-SALIX	212	4	
	% TOTAL OBSERVED IN RIPARIAN HABITAT-FALL						67
	WHITE-TAILED DEER	ODVI1	BZ	MESIC MIXED GRASSLAND	322	3	
	% TOTAL OBSERVED IN MESIC MIXED GRASSLAND HABITAT-FALL						33
WINTER							
MULE DEER							
	MULE DEER	ODHE1	BZ	WET MEADOW	10	12	
	MULE DEER	ODHE1	BZ	SHORT MARSH	20	10	
	MULE DEER	ODHE1	BZ	TALL MARSH	30	2	
	MULE DEER	ODHE1	BZ	TALL MARSH	30	1	
	MULE DEER	ODHE1	BZ	IMPOUNDMENT MUDFLAT	93	10	
	% TOTAL OBSERVED IN WETLAND HABITAT-WINTER						4
	MULE DEER	ODHE1	BZ	RIPARIAN WOODLAND	110	21	
	MULE DEER	ODHE1	BZ	RIPARIAN SHRUBLAND-AMORPHA	211	4	
	MULE DEER	ODHE1	BZ	RIPARIAN SHRUBLAND-SALIX	212	33	
	% TOTAL OBSERVED IN RIPARIAN HABITAT-WINTER						6
	MULE DEER	ODHE1	BZ	TALL UPLAND SHRUBLAND	230	106	
	MULE DEER	ODHE1	BZ	SAVANNAH SHRUBLAND	260	7	
	% TOTAL OBSERVED IN UPLAND SHRUBLAND HABITAT-WINTER						13
	MULE DEER	ODHE1	BZ	MESIC MIXED GRASSLAND	322	437	
	MULE DEER	ODHE1	BZ	XERIC MIXED GRASSLAND	323	179	
	% TOTAL OBSERVED IN NATIVE GRASSLAND HABITAT-WINTER						69
	MULE DEER	ODHE1	IA	RECLAIMED GRASSLAND	324	67	
	% TOTAL OBSERVED IN RECLAIMED GRASSLAND HABITAT-WINTER						8

TABLE 3-3. BIG GAME MAMMAL HABITAT USE DURING 1996

SEASON	SPECIES NAME	SPEC CODE	ADMN AREA	HABITAT NAME	HAB TYPE	TOTAL OBSERVED	PERCENT BY HABITAT
MULE X WHITE-TAILED DEER							
	MULE X WHITE-TAILED DEER	HEXVI	BZ	RECLAIMED GRASSLAND	324	1	
	% TOTAL OBSERVED IN RECLAIMED GRASSLAND HABITAT-WINTER						100
WHITE-TAILED DEER							
	WHITE-TAILED DEER	ODVI1	BZ	RIPARIAN SHRUBLAND-AMORPHA	211	3	
	% TOTAL OBSERVED IN RIPARIAN SHRUBLAND HABITAT-WINTER						75
	WHITE-TAILED DEER	ODVI1	BZ	XERIC MIXED GRASSLAND	323	1	
	% TOTAL OBSERVED IN XERIC MIXED GRASSLAND HABITAT-WINTER						25
	TOTAL NUMBER OF OBSERVATIONS DURING 1996						2389

TABLE 3-4. MID-SIZED MAMMAL HABITAT USE DURING 1996

SEASON	SPECIES NAME	SPEC CODE	ADMN AREA	HABITAT NAME	HAB TYPE	TOTAL OBSERVED	PERCENT BY HABITAT
SPRING							
	MUSKRAT	ONZI1	BZ	IMPOUNDMENT	54	7	
	% TOTAL OBSERVED IMPOUNDMENT HABITAT-SPRING						100
	COMMON PORCUPINE	ERDO1	BZ	TALL UPLAND SHRUBLAND	230	1	
	% TOTAL OBSERVED TALL UPLAND SHRUBLAND HABITAT-SPRING						50
	COMMON PORCUPINE	ERDO1	BZ	MESIC MIXED GRASSLAND	322	1	
	% TOTAL OBSERVED NATIVE GRASSLAND HABITAT-SPRING						50
	DESERT COTTONTAIL	SYAU1	BZ	MESIC MIXED GRASSLAND	322	2	
	DESERT COTTONTAIL	SYAU1	BZ	XERIC MIXED GRASSLAND	323	1	
	% TOTAL OBSERVED NATIVE GRASSLAND HABITAT-SPRING						10
	DESERT COTTONTAIL	SYAU1	IA	ANNUAL GRASS/FORB	410	4	
	DESERT COTTONTAIL	SYAU1	BZ	DISTURBED BARREN LANDS	420	20	
	% TOTAL OBSERVED DISTURBED HABITAT-SPRING						77
	DESERT COTTONTAIL	SYAU1	BZ	ROCK AND GRAVEL PILES (RIPRAP)	530	1	
	DESERT COTTONTAIL	SYAU1	IA	ROCK AND GRAVEL PILES (RIPRAP)	530	2	10
	% TOTAL OBSERVED ROCK AND GRAVEL PILES (RIPRAP) HABITAT-SPRING						
	DESERT COTTONTAIL	SYAU1	BZ	ROADSIDE/FENCEROW COMPLEX	540	1	3
	% TOTAL OBSERVED ROADSIDE/FENCEROW COMPLEX HABITAT-SPRING						
SUMMER							
	MUSKRAT	ONZI1	BZ	IMPOUNDMENT	54	9	
	% TOTAL OBSERVED IMPOUNDMENT HABITAT-SUMMER						100
	DESERT COTTONTAIL	SYAU1	BZ	RIPARIAN SHRUBLAND-SALIX	212	1	
	% TOTAL OBSERVED RIPARIAN SHRUBLAND-SALIX HABITAT-SUMMER						2
	DESERT COTTONTAIL	SYAU1	BZ	MESIC MIXED GRASSLAND	322	4	
	DESERT COTTONTAIL	SYAU1	BZ	XERIC MIXED GRASSLAND	323	1	
	% TOTAL OBSERVED NATIVE GRASSLAND HABITAT-SUMMER						10
	DESERT COTTONTAIL	SYAU1	IA	RECLAIMED GRASSLAND	324	1	
	DESERT COTTONTAIL	SYAU1	BZ	RECLAIMED GRASSLAND	324	1	
	% TOTAL OBSERVED RECLAIMED GRASSLAND HABITAT-SUMMER						4
	DESERT COTTONTAIL	SYAU1	BZ	ANNUAL GRASS/FORB	410	10	
	DESERT COTTONTAIL	SYAU1	BZ	DISTURBED BARREN LANDS	420	18	
	% TOTAL OBSERVED DISTURBED HABITAT-SUMMER						56
	DESERT COTTONTAIL	SYAU1	BZ	ROCK AND GRAVEL PILES (RIPRAP)	530	1	
	% TOTAL OBSERVED ROCK AND GRAVEL PILES (RIPRAP) HABITAT-SUMMER						2
	DESERT COTTONTAIL	SYAU1	BZ	ROADSIDE/FENCEROW COMPLEX	540	13	
	% TOTAL OBSERVED ROADSIDE/FENCEROW COMPLEX HABITAT-SUMMER						26

TABLE 3-4. MID-SIZED MAMMAL HABITAT USE DURING 1996

SEASON	SPECIES NAME	SPEC CODE	ADMN AREA	HABITAT NAME	HAB TYPE	TOTAL OBSERVED	PERCENT BY HABITAT
FALL	MUSKRAT	ONZI1	BZ	IMPOUNDMENT	54	3	
	% TOTAL OBSERVED IMPOUNDMENT HABITAT-FALL						100
	EASTERN FOX SQUIRREL	SCNI1	BZ	RIPARIAN WOODLAND	110	1	
	% TOTAL OBSERVED RIPARIAN WOODLAND HABITAT-FALL						100
	DESERT COTTONTAIL	SYAU1	BZ	MESIC MIXED GRASSLAND	322	1	
	DESERT COTTONTAIL	SYAU1	BZ	XERIC MIXED GRASSLAND	323	1	
	% TOTAL OBSERVED NATIVE GRASSLAND HABITAT-FALL						4
	DESERT COTTONTAIL	SYAU1	BZ	RECLAIMED GRASSLAND	324	1	
	% TOTAL OBSERVED NATIVE GRASSLAND HABITAT-FALL						2
	DESERT COTTONTAIL	SYAU1	IA	ANNUAL GRASS/FORB	410	40	
	DESERT COTTONTAIL	SYAU1	BZ	DISTURBED BARREN LANDS	420	5	
	DESERT COTTONTAIL	SYAU1	BZ	BUILDING	520	3	
	% TOTAL OBSERVED DISTURBED HABITAT-FALL						90
	DESERT COTTONTAIL	SYAU1	BZ	ROCK AND GRAVEL PILES (RIPRAP)	530	2	
	% TOTAL OBSERVED ROCK AND GRAVEL PILES (RIPRAP) HABITAT-FALL						4
WINTER	MUSKRAT	ONZI1	BZ	TALL MARSH	30	1	
	% TOTAL OBSERVED TALL MARSH HABITAT-WINTER						100
	COMMON PORCUPINE	ERDO1	BZ	TALL UPLAND SHRUBLAND	230	1	
	% TOTAL OBSERVED TALL UPLAND SHRUBLAND HABITAT-WINTER						100
	COMMON PORCUPINE	ERDO1	BZ	MESIC MIXED GRASSLAND	322	2	
	% TOTAL OBSERVED MESIC MIXED GRASSLAND HABITAT-WINTER						100
	DESERT COTTONTAIL	SYAU1	BZ	RIPARIAN SHRUBLAND-SALIX	212	1	
	% TOTAL OBSERVED RIPARIAN SHRUBLAND-SALIX HABITAT-WINTER						17
	DESERT COTTONTAIL	SYAU1	BZ	MESIC MIXED GRASSLAND	322	1	
	DESERT COTTONTAIL	SYAU1	BZ	XERIC MIXED GRASSLAND	323	1	
	% TOTAL OBSERVED NATIVE GRASSLAND HABITAT-WINTER						33
	DESERT COTTONTAIL	SYAU1	BZ	RECLAIMED GRASSLAND	324	2	
	% TOTAL OBSERVED RECLAIMED GRASSLAND HABITAT-WINTER						33
	DESERT COTTONTAIL	SYAU1	BZ	ANNUAL GRASS/FORB	410	1	
	% TOTAL OBSERVED DISTURBED HABITAT-WINTER						17
	JACKRABBIT	LEP1	BZ	XERIC MIXED GRASSLAND	323	1	
	% TOTAL OBSERVED NATIVE GRASSLAND HABITAT-WINTER						33
	JACKRABBIT	LEP1	BZ	ANNUAL GRASS/FORB	410	1	
	JACKRABBIT	LEP1	BZ	DISTURBED BARREN LANDS	420	1	
	% TOTAL OBSERVED DISTURBED HABITAT-WINTER						67
TOTAL OBSERVATIONS OF MID-SIZED MAMMALS DURING 1996						169	

TABLE 3-5. CARNIVORE HABITAT USE DURING 1996

SEASON	SPECIES NAME	SPEC CODE	ADMN AREA	HABITAT NAME	HAB TYPE	TOTAL OBSERVED	PERCENT BY HABITAT
SPRING							
	COYOTE	CALA1	BZ	WET MEADOW	10	1	
	COYOTE	CALA1	BZ	SHORT MARSH	20	3	
	% TOTAL OBSERVED IN WETLAND HABITAT-SPRING						27
	COYOTE	CALA1	BZ	RIPARIAN SHRUBLAND-SALIX	212	4	
	% TOTAL OBSERVED IN RIPARIAN SHRUBLAND-SALIX HABITAT-SPRING						27
	COYOTE	CALA1	BZ	TALL UPLAND SHRUBLAND	230	1	
	% TOTAL OBSERVED IN TALL UPLAND SHRUBLAND HABITAT-SPRING						6
	COYOTE	CALA1	BZ	MESIC MIXED GRASSLAND	322	4	
	COYOTE	CALA1	BZ	XERIC MIXED GRASSLAND	323	2	
	% TOTAL OBSERVED IN NATIVE GRASSLAND HABITAT-SPRING						40
	RACCOON	PRLO1	BZ	RIPARIAN SHRUBLAND-SALIX	212	1	
	% TOTAL OBSERVED IN RIPARIAN SHRUBLAND-SALIX HABITAT-SPRING						100
	STRIPED SKUNK	MEME1	BZ	ROADSIDE/FENCEROW COMPLEX	540	1	
	% TOTAL OBSERVED IN ROADSIDE/FENCEROW COMPLEX HABITAT-SPRING						100
SUMMER							
	COMMON GRAY FOX	URCI1	BZ	IMPOUNDMENT MUDFLAT	93	1	
	% TOTAL OBSERVED IN IMPOUNDMENT MUDFLAT HABITAT-SUMMER						100
	COYOTE	CALA1	BZ	IMPOUNDMENT MUDFLAT	93	2	
	% TOTAL OBSERVED IN IMPOUNDMENT MUDFLAT HABITAT-SUMMER						4
	COYOTE	CALA1	BZ	RIPARIAN WOODLAND	110	1	
	% TOTAL OBSERVED IN RIPARIAN WOODLAND HABITAT-SUMMER						2
	COYOTE	CALA1	BZ	RIPARIAN SHRUBLAND-SALIX	212	5	
	% TOTAL OBSERVED IN RIPARIAN SHRUBLAND-SALIX HABITAT-SUMMER						9
	COYOTE	CALA1	BZ	SHORT UPLAND SHRUBLAND	220	1	
	COYOTE	CALA1	BZ	TALL UPLAND SHRUBLAND	230	3	
	% TOTAL OBSERVED IN UPLAND SHRUBLAND HABITAT-SUMMER						8
	COYOTE	CALA1	BZ	MESIC MIXED GRASSLAND	322	28	
	COYOTE	CALA1	BZ	XERIC MIXED GRASSLAND	323	12	
	% TOTAL OBSERVED IN NATIVE GRASSLAND HABITAT-SUMMER						77
	RACCOON	PRLO1	BZ	IMPOUNDMENT MUDFLAT	93	4	
	% TOTAL OBSERVED IN IMPOUNDMENT MUDFLAT HABITAT-SUMMER						31
	RACCOON	PRLO1	BZ	RIPARIAN SHRUBLAND-SALIX	212	4	
	% TOTAL OBSERVED IN RIPARIAN SHRUBLAND-SALIX HABITAT-SUMMER						31
	RACCOON	PRLO1	IA	DISTURBED BARREN LANDS	420	5	
	% TOTAL OBSERVED IN DISTURBED HABITAT-SUMMER						38

TABLE 3-5. CARNIVORE HABITAT USE DURING 1996

SEASON	SPECIES NAME	SPEC CODE	ADMN AREA	HABITAT NAME	HAB TYPE	TOTAL OBSERVED	PERCENT BY HABITAT
	STRIPED SKUNK	MEME1	BZ	RIPARIAN WOODLAND	110	1	
	% TOTAL OBSERVED IN RIPARIAN WOODLAND HABITAT-SUMMER						100
FALL							
	BLACK BEAR	URAM1	BZ	WET MEADOW	10	1	
	% TOTAL OBSERVED IN WETLAND HABITAT-FALL						50
	BLACK BEAR	URAM1	BZ	MESIC MIXED GRASSLAND	322	1	
	% TOTAL OBSERVED IN NATIVE GRASSLAND HABITAT-FALL						50
	COYOTE	CALA1	BZ	SHORT MARSH	20	6	
	% TOTAL OBSERVED IN WETLAND HABITAT-FALL						17
	COYOTE	CALA1	BZ	RIPARIAN SHRUBLAND-AMORPHA	211	1	
	COYOTE	CALA1	BZ	RIPARIAN SHRUBLAND-SALIX	212	4	
	% TOTAL OBSERVED IN RIPARIAN SHRUBLAND HABITAT-FALL						14
	COYOTE	CALA1	BZ	TALL UPLAND SHRUBLAND	230	4	
	% TOTAL OBSERVED IN TALL UPLAND SHRUBLAND HABITAT-FALL						11
	COYOTE	CALA1	BZ	MESIC MIXED GRASSLAND	322	7	
	COYOTE	CALA1	BZ	XERIC MIXED GRASSLAND	323	11	
	% TOTAL OBSERVED IN NATIVE GRASSLAND HABITAT-FALL						50
	COYOTE	CALA1	BZ	RECLAIMED GRASSLAND	324	2	
	% TOTAL OBSERVED IN RECLAIMED GRASSLAND HABITAT-FALL						5
	COYOTE	CALA1	BZ	ANNUAL GRASS/FORB	410	1	
	% TOTAL OBSERVED IN DISTURBED HABITAT-FALL						3
	MINK	MUVI1	BZ	RIPARIAN SHRUBLAND-SALIX	212	1	
	% TOTAL OBSERVED IN RIPARIAN SHRUBLAND HABITAT-FALL						100
	RACCOON	PRLO1	BZ	TALL MARSH	30	1	
	% TOTAL OBSERVED IN WETLAND HABITAT-FALL						25
	RACCOON	PRLO1	BZ	RIPARIAN SHRUBLAND-SALIX	212	1	
	% TOTAL OBSERVED IN RIPARIAN SHRUBLAND HABITAT-FALL						25
	RACCOON	PRLO1	BZ	ANNUAL GRASS/FORB	410	1	
	RACCOON	PRLO1	IA	BUILDING	520	1	
	% TOTAL OBSERVED IN DISTURBED HABITAT-FALL						50
WINTER							
	COYOTE	CALA1	BZ	WET MEADOW	10	1	
	COYOTE	CALA1	BZ	SHORT MARSH	20	10	
	COYOTE	CALA1	BZ	TALL MARSH	30	5	
	COYOTE	CALA1	EA	IMPOUNDMENT	54	1	
	% TOTAL OBSERVED IN WETLAND HABITAT-WINTER						31

TABLE 3-5. CARNIVORE HABITAT USE DURING 1996

SEASON	SPECIES NAME	SPEC CODE	ADMN AREA	HABITAT NAME	HAB TYPE	TOTAL OBSERVED	PERCENT BY HABITAT
	COYOTE	CALA1	BZ	RIPARIAN WOODLAND	110	8	
	% TOTAL OBSERVED IN RIPARIAN WOODLAND HABITAT-WINTER						14
	COYOTE	CALA1	BZ	TALL UPLAND SHRUBLAND	230	6	
	% TOTAL OBSERVED IN TALL UPLAND SHRUBLAND HABITAT-WINTER						11
	COYOTE	CALA1	BZ	MESIC MIXED GRASSLAND	322	15	
	COYOTE	CALA1	BZ	XERIC MIXED GRASSLAND	323	8	
	% TOTAL OBSERVED IN NATIVE GRASSLAND HABITAT-WINTER						42
	COYOTE	CALA1	BZ	DISTURBED BARREN LANDS	420	1	
	% TOTAL OBSERVED IN DISTURBED HABITAT-WINTER						2
	TOTAL NUMBER OF OBSERVATIONS DURING 1996						182

Tables

TABLE 3-6. WATERFOWL HABITAT USE DURING 1996

SEASON	SPECIES NAME	SPEC CODE	ADMN AREA	HABITAT NAME	HAB TYPE	TOTAL OBSERVED	PERCENT BY HABITAT
SPRING							
	GREEN-WINGED TEAL	ANCR1	BZ	TALL MARSH	30	2	
	MALLARD	ANPL1	BZ	TALL MARSH	30	9	
	RING-NECKED DUCK	AYCO1	BZ	TALL MARSH	30	5	
	% TOTAL OBSERVED TALL MARSH HABITAT-SPRING						2
	MALLARD	ANPL1	BZ	STREAM RIFFLE	41	4	
	% TOTAL OBSERVED STREAM RIFFLE HABITAT-SPRING						< 1
	MALLARD	ANPL1	BZ	INTERMITTENT STREAM POOL	43	8	
	% TOTAL OBSERVED INTERMITTENT STREAM POOL HABITAT-SPRING						1
	MALLARD	ANPL1	BZ	DITCH POOL	49	8	
	% TOTAL OBSERVED DITCH POOL HABITAT-SPRING						1
	AMERICAN COOT	FUAM1	BZ	IMPOUNDMENT	54	77	
	AMERICAN WIGEON	ANAM1	BZ	IMPOUNDMENT	54	2	
	BLACK-CROWNED NIGHT HERON	NYNY1	BZ	IMPOUNDMENT	54	5	
	BLUE-WINGED TEAL	ANDI1	BZ	IMPOUNDMENT	54	43	
	BUFFLEHEAD	BUAL1	BZ	IMPOUNDMENT	54	18	
	CANADA GOOSE	BRCA1	BZ	IMPOUNDMENT	54	21	
	CINNAMON TEAL	ANCY1	BZ	IMPOUNDMENT	54	13	
	DOUBLE-CRESTED CORMORANT	PHAU1	BZ	IMPOUNDMENT	54	2	
	GADWALL	ANST1	BZ	IMPOUNDMENT	54	44	
	GREAT BLUE HERON	ARHE1	BZ	IMPOUNDMENT	54	4	
	GREEN-WINGED TEAL	ANCR1	BZ	IMPOUNDMENT	54	74	
	LESSER SCAUP	AYAF1	BZ	IMPOUNDMENT	54	74	
	MALLARD	ANPL1	BZ	IMPOUNDMENT	54	159	
	NORTHERN SHOVELER	ANCL1	BZ	IMPOUNDMENT	54	17	
	PIED-BILLED GREBE	POPO1	BZ	IMPOUNDMENT	54	37	
	REDHEAD	AYAM1	BZ	IMPOUNDMENT	54	121	
	RING-NECKED DUCK	AYCO1	BZ	IMPOUNDMENT	54	27	
	RUDDY DUCK	OXJA1	BZ	IMPOUNDMENT	54	2	
	MALLARD	ANPL1	BZ	DUGOUT POND	57	4	
	% TOTAL OBSERVED IMPOUNDMENT/DUGOUT HABITAT-SPRING						91
	CANADA GOOSE	BRCA1	BZ	IMPOUNDMENT MUDFLAT	93	2	
	MALLARD	ANPL1	BZ	IMPOUNDMENT MUDFLAT	93	2	
	% TOTAL OBSERVED IMPOUNDMENT MUDFLAT HABITAT-SPRING						< 1
	BLACK-CROWNED NIGHT HERON	NYNY1	BZ	RIPARIAN WOODLAND	110	3	

TABLE 3-6. WATERFOWL HABITAT USE DURING 1996

SEASON	SPECIES NAME	SPEC CODE	ADMN AREA	HABITAT NAME	HAB TYPE	TOTAL OBSERVED	PERCENT BY HABITAT
	CANADA GOOSE	BRCA1	BZ	RIPARIAN WOODLAND	110	3	
	DOUBLE-CRESTED CORMORANT	PHAU1	EA	RIPARIAN WOODLAND	110	12	
	GREAT BLUE HERON	ARHE1	BZ	RIPARIAN WOODLAND	110	1	
	MALLARD	ANPL1	BZ	RIPARIAN WOODLAND	110	4	
	PIED-BILLED GREBE	POPO1	BZ	RIPARIAN WOODLAND	110	1	
	% TOTAL OBSERVED RIPARIAN WOODLAND HABITAT-SPRING						3
	MALLARD	ANPL1	BZ	TALL UPLAND SHRUBLAND	230	2	
	% TOTAL OBSERVED TALL UPLAND SHRUBLAND HABITAT-SPRING						< 1
	CANADA GOOSE	BRCA1	BZ	MESIC MIXED GRASSLAND	322	4	
	MALLARD	ANPL1	BZ	MESIC MIXED GRASSLAND	322	4	
	% TOTAL OBSERVED MESIC MIXED GRASSLAND HABITAT-SPRING						< 1
	BLACK-CROWNED NIGHT HERON	NYNY1	BZ	ROCK AND GRAVEL PILES	530	1	
	% TOTAL OBSERVED ROCK AND GRAVEL PILES HABITAT-SPRING						< 1
SUMMER							
	GREAT BLUE HERON	ARHE1	BZ	TALL MARSH	30	1	
	MALLARD	ANPL1	BZ	TALL MARSH	30	2	
	% TOTAL OBSERVED TALL MARSH HABITAT-SUMMER						< 1
	MALLARD	ANPL1	BZ	INTERMITTENT STREAM POOL	43	6	
	% TOTAL OBSERVED INTERMITTENT STREAM POOL HABITAT-SUMMER						1
	MALLARD	ANPL1	BZ	DITCH POOL	49	4	
	% TOTAL OBSERVED DITCH POOL HABITAT-SUMMER						< 1
	MALLARD	ANPL1	BZ	NATURAL POND	51	2	
	% TOTAL OBSERVED TALL MARSH ROCK AND GRAVEL PILES HABITAT-SUMMER						< 1
	AMERICAN COOT	FUAM1	BZ	IMPOUNDMENT	54	251	
	AMERICAN WIGEON	ANAM1	BZ	IMPOUNDMENT	54	6	
	BLUE-WINGED TEAL	ANDI1	BZ	IMPOUNDMENT	54	55	
	CINNAMON TEAL	ANCY1	BZ	IMPOUNDMENT	54	9	
	DOUBLE-CRESTED CORMORANT	PHAU1	BZ	IMPOUNDMENT	54	20	
	GADWALL	ANST1	BZ	IMPOUNDMENT	54	7	
	GREAT BLUE HERON	ARHE1	BZ	IMPOUNDMENT	54	12	
	GREEN-WINGED TEAL	ANCR1	BZ	IMPOUNDMENT	54	18	
	MALLARD	ANPL1	BZ	IMPOUNDMENT	54	206	
	NORTHERN SHOVELER	ANCL1	BZ	IMPOUNDMENT	54	4	
	PIED-BILLED GREBE	POPO1	BZ	IMPOUNDMENT	54	202	
	REDHEAD	AYAM1	BZ	IMPOUNDMENT	54	20	

TABLE 3-6. WATERFOWL HABITAT USE DURING 1996

SEASON	SPECIES NAME	SPEC CODE	ADMN AREA	HABITAT NAME	HAB TYPE	TOTAL OBSERVED	PERCENT BY HABITAT
	RING-NECKED DUCK	AYCO1	BZ	IMPOUNDMENT	54	2	
	RUDDY DUCK	OXJA1	BZ	IMPOUNDMENT	54	20	
	WOOD DUCK	AISP1	BZ	IMPOUNDMENT	54	2	
	% TOTAL OBSERVED IMPOUNDMENT HABITAT-SUMMER						94
	GREAT BLUE HERON	ARHE1	BZ	IMPOUNDMENT MUDFLAT	93	3	
	MALLARD	ANPL1	BZ	IMPOUNDMENT MUDFLAT	93	6	
	PIED-BILLED GREBE	POPO1	BZ	IMPOUNDMENT MUDFLAT	93	2	
	WHITE-FACED IBIS	PLCH1	BZ	IMPOUNDMENT MUDFLAT	93	2	
	% TOTAL OBSERVED IMPOUNDMENT MUDFLAT HABITAT-SUMMER						1
	BLACK-CROWNED NIGHT HERON	NYNY1	BZ	RIPARIAN WOODLAND	110	2	
	MALLARD	ANPL1	BZ	RIPARIAN WOODLAND	110	3	
	% TOTAL OBSERVED RIPARIAN WOODLAND HABITAT-SUMMER						1
	CINNAMON TEAL	ANCY1	BZ	RIPARIAN SHRUBLAND-AMORPHA	211	2	
	DOUBLE-CRESTED CORMORANT	PHAU1	BZ	RIPARIAN SHRUBLAND-AMORPHA	211	1	
	% TOTAL OBSERVED RIPARIAN SHRUBLAND-AMORPHA HABITAT-SUMMER						< 1
	DOUBLE-CRESTED CORMORANT	PHAU1	BZ	TALL UPLAND SHRUBLAND	230	1	
	% TOTAL OBSERVED TALL UPLAND SHRUBLAND HABITAT-SUMMER						< 1
	AMERICAN WHITE PELICAN	PEER1	BZ	MESIC MIXED GRASSLAND	322	14	
	MALLARD	ANPL1	BZ	MESIC MIXED GRASSLAND	322	1	
	% TOTAL OBSERVED MESIC MIXED GRASSLAND HABITAT-SUMMER						2
	DOUBLE-CRESTED CORMORANT	PHAU1	BZ	XERIC MIXED GRASSLAND	323	1	
	GREAT BLUE HERON	ARHE1	BZ	XERIC MIXED GRASSLAND	323	2	
	% TOTAL OBSERVED XERIC MIXED GRASSLAND HABITAT-SUMMER						< 1
	DOUBLE-CRESTED CORMORANT	PHAU1	BZ	RECLAIMED GRASSLAND	324	1	
	% TOTAL OBSERVED RECLAIMED GRASSLAND HABITAT-SUMMER						< 1
FALL	MALLARD	ANPL1	BZ	TALL MARSH	30	1	
	% TOTAL OBSERVED TALL MARSH HABITAT-FALL						< 1
	AMERICAN COOT	FUAM1	BZ	IMPOUNDMENT	54	38	
	BLUE-WINGED TEAL	ANDI1	BZ	IMPOUNDMENT	54	9	
	BUFFLEHEAD	BUAL1	BZ	IMPOUNDMENT	54	44	
	COMMON GOLDENEYE	BUCL1	BZ	IMPOUNDMENT	54	3	
	COMMON MERGANSER	MEME1	BZ	IMPOUNDMENT	54	1	
	EARED GREBE	PONI1	BZ	IMPOUNDMENT	54	1	
	GADWALL	ANST1	BZ	IMPOUNDMENT	54	13	

TABLE 3-6. WATERFOWL HABITAT USE DURING 1996

SEASON	SPECIES NAME	SPEC CODE	ADMN AREA	HABITAT NAME	HAB TYPE	TOTAL OBSERVED	PERCENT BY HABITAT
	GREAT BLUE HERON	ARHE1	BZ	IMPOUNDMENT	54	1	
	GREEN-WINGED TEAL	ANCR1	BZ	IMPOUNDMENT	54	16	
	LESSER SCAUP	AYAF1	BZ	IMPOUNDMENT	54	7	
	MALLARD	ANPL1	BZ	IMPOUNDMENT	54	176	
	NORTHERN PINTAIL	ANAC1	BZ	IMPOUNDMENT	54	8	
	PIED-BILLED GREBE	POPO1	BZ	IMPOUNDMENT	54	35	
	REDHEAD	AYAM1	BZ	IMPOUNDMENT	54	5	
	RING-NECKED DUCK	AYCO1	BZ	IMPOUNDMENT	54	8	
	RUDDY DUCK	OXJA1	BZ	IMPOUNDMENT	54	11	
	WOOD DUCK	AISP1	BZ	IMPOUNDMENT	54	1	
	% TOTAL OBSERVED IMPOUNDMENT HABITAT-FALL						58
	CANADA GOOSE	BRCA1	BZ	TALL UPLAND SHRUBLAND	230	12	
	% TOTAL OBSERVED TALL UPLAND SHRUBLAND HABITAT-FALL						2
	CANADA GOOSE	BRCA1	BZ	XERIC MIXED GRASSLAND	323	40	
	MALLARD	ANPL1	BZ	XERIC MIXED GRASSLAND	323	7	
	% TOTAL OBSERVED XERIC MIXED GRASSLAND HABITAT-FALL						7
	CANADA GOOSE	BRCA1	EA	OVERGRAZED PASTURE	325	211	
	% TOTAL OBSERVED OVERGRAZED PASTURE HABITAT-FALL						33
	GREAT BLUE HERON	ARHE1	BZ	TRANSMISSION LINES	510	1	
	% TOTAL OBSERVED TRANSMISSION LINES HABITAT-FALL						< 1
WINTER							
	MALLARD	ANPL1	BZ	SHORT MARSH	20	1	
	% TOTAL OBSERVED SHORT MARSH HABITAT-FALL						< 1
	AMERICAN WIGEON	ANAM1	BZ	IMPOUNDMENT	54	2	
	CANADA GOOSE	BRCA1	BZ	IMPOUNDMENT	54	7	
	CINNAMON TEAL	ANCY1	BZ	IMPOUNDMENT	54	1	
	COMMON GOLDENEYE	BUCL1	BZ	IMPOUNDMENT	54	9	
	GREEN-WINGED TEAL	ANCR1	BZ	IMPOUNDMENT	54	27	
	MALLARD	ANPL1	BZ	IMPOUNDMENT	54	61	
	REDHEAD	AYAM1	BZ	IMPOUNDMENT	54	63	
	% TOTAL OBSERVED IMPOUNDMENT HABITAT-FALL						83
	CANADA GOOSE	BRCA1	BZ	RECLAIMED GRASSLAND	324	35	
	% TOTAL OBSERVED RECLAIMED GRASSLAND HABITAT-FALL						17
	TOTAL OBSERVATIONS OF WATERFOWL DURING 1996						2564

TABLE 3-7. RAPTOR HABITAT USE DURING 1996

SEASON	SPECIES NAME	SPEC CODE	ADMN AREA	HABITAT NAME	HAB TYPE	TOTAL OBSERVED	PERCENT BY HABITAT
SPRING							
	AMERICAN KESTREL	FASP1	BZ	SHORT MARSH	20	3	
	RED-TAILED HAWK	BUJA1	BZ	SHORT MARSH	20	2	
	SHORT-EARED OWL	ASFL1	BZ	SHORT MARSH	20	1	
	SWAINSON'S HAWK	BUSW1	BZ	SHORT MARSH	20	1	
	% TOTAL OBSERVED SHORT MARSH HABITAT-SPRING						6
	FERRUGINOUS HAWK	BURE1	BZ	IMPOUNDMENT	54	1	
	% TOTAL OBSERVED IMPOUNDMENT HABITAT-SPRING						< 1
	AMERICAN KESTREL	FASP1	BZ	RIPARIAN WOODLAND	110	1	
	BALD EAGLE	HALE1	EA	RIPARIAN WOODLAND	110	6	
	COOPER'S HAWK	ACCO1	BZ	RIPARIAN WOODLAND	110	1	
	FERRUGINOUS HAWK	BURE1	BZ	RIPARIAN WOODLAND	110	1	
	GREAT HORNED OWL	BUVI1	BZ	RIPARIAN WOODLAND	110	44	
	LONG-EARED OWL	ASOT1	BZ	RIPARIAN WOODLAND	110	1	
	RED-TAILED HAWK	BUJA1	BZ	RIPARIAN WOODLAND	110	16	
	SWAINSON'S HAWK	BUSW1	BZ	RIPARIAN WOODLAND	110	5	
	% TOTAL OBSERVED RIPARIAN WOODLAND HABITAT-SPRING						63
	GREAT HORNED OWL	BUVI1	BZ	PONDEROSA WOODLAND	120	2	
	RED-TAILED HAWK	BUJA1	BZ	PONDEROSA WOODLAND	120	1	
	% TOTAL OBSERVED PONDEROSA WOODLAND HABITAT-SPRING						3
	RED-TAILED HAWK	BUJA1	BZ	RIPARIAN SHRUBLAND-AMORPHA	211	2	
	% TOTAL OBSERVED RIPARIAN SHRUBLAND-AMORPHA HABITAT-SPRING						2
	NORTHERN HARRIER	CICY1	BZ	TALL UPLAND SHRUBLAND	230	1	
	RED-TAILED HAWK	BUJA1	BZ	TALL UPLAND SHRUBLAND	230	2	
	SHORT-EARED OWL	ASFL1	BZ	TALL UPLAND SHRUBLAND	230	1	
	TURKEY VULTURE	CAAU1	BZ	TALL UPLAND SHRUBLAND	230	1	
	% TOTAL OBSERVED TALL UPLAND SHRUBLAND HABITAT-SPRING						4
	AMERICAN KESTREL	FASP1	EA	MESIC MIXED GRASSLAND	322	7	
	GOLDEN EAGLE	AQCH1	EA	MESIC MIXED GRASSLAND	322	1	
	OSPREY	PAHA1	EA	MESIC MIXED GRASSLAND	322	1	
	RED-TAILED HAWK	BUJA1	BZ	MESIC MIXED GRASSLAND	322	6	
	SWAINSON'S HAWK	BUSW1	BZ	MESIC MIXED GRASSLAND	322	2	
	% TOTAL OBSERVED MESIC MIXED GRASSLAND HABITAT-SPRING						14

TABLE 3-7. RAPTOR HABITAT USE DURING 1996

SEASON	SPECIES NAME	SPEC CODE	ADMN AREA	HABITAT NAME	HAB TYPE	TOTAL OBSERVED	PERCENT BY HABITAT
	AMERICAN KESTREL	FASP1	BZ	XERIC MIXED GRASSLAND	323	2	
	RED-TAILED HAWK	BUJA1	BZ	XERIC MIXED GRASSLAND	323	1	
	TURKEY VULTURE	CAAU1	BZ	XERIC MIXED GRASSLAND	323	1	
	SWAINSON'S HAWK	BUSW1	BZ	XERIC MIXED GRASSLAND	323	1	
	% TOTAL OBSERVED SHORT XERIC MIXED GRASSLAND HABITAT-SPRING						4
	TURKEY VULTURE	CAAU1	BZ	RECLAIMED GRASSLAND	324	1	
	% TOTAL OBSERVED RECLAIMED GRASSLAND HABITAT-SPRING						< 1
	AMERICAN KESTREL	FASP1	BZ	BUILDING	520	1	
	GREAT HORNED OWL	BUV11	BZ	BUILDING	520	1	
	% TOTAL OBSERVED BUILDING HABITAT-SPRING						2
	AMERICAN KESTREL	FASP1	BZ	FENCE	560	1	
	% TOTAL OBSERVED FENCE HABITAT-SPRING						< 1
SUMMER							
	RED-TAILED HAWK	BUJA1	BZ	SHORT MARSH	20	1	
	% TOTAL OBSERVED SHORT MARSH HABITAT-SUMMER						1
	AMERICAN KESTREL	FASP1	BZ	RIPARIAN WOODLAND	110	3	
	BALD EAGLE	HALE1	EA	RIPARIAN WOODLAND	110	3	
	FERRUGINOUS HAWK	BURE1	BZ	RIPARIAN WOODLAND	110	1	
	GREAT HORNED OWL	BUV11	BZ	RIPARIAN WOODLAND	110	20	
	NORTHERN GOSHAWK	ACGE1	BZ	RIPARIAN WOODLAND	110	1	
	RED-TAILED HAWK	BUJA1	BZ	RIPARIAN WOODLAND	110	25	
	SWAINSON'S HAWK	BUSW1	BZ	RIPARIAN WOODLAND	110	12	
	% TOTAL OBSERVED RIPARIAN WOODLAND HABITAT-SUMMER						60
	GREAT HORNED OWL	BUV11	BZ	TREE PLANTINGS	130	1	
	RED-TAILED HAWK	BUJA1	BZ	TREE PLANTINGS	130	1	
	% TOTAL OBSERVED TREE PLANTINGS HABITAT-SUMMER						2
	RED-TAILED HAWK	BUJA1	BZ	RIPARIAN SHRUBLAND-AMORPHA	211	1	
	% TOTAL OBSERVED RIPARIAN SHRUBLAND-AMORPHA HABITAT-SUMMER						1
	GREAT HORNED OWL	BUV11	BZ	RIPARIAN SHRUBLAND-SALIX	212	1	
	% TOTAL OBSERVED RIPARIAN SHRUBLAND-SALIX HABITAT-SUMMER						1
	GREAT HORNED OWL	BUV11	BZ	TALL UPLAND SHRUBLAND	230	7	
	% TOTAL OBSERVED TALL UPLAND SHRUBLAND HABITAT-SUMMER						6
	AMERICAN KESTREL	FASP1	BZ	MESIC MIXED GRASSLAND	322	6	
	GOLDEN EAGLE	AQCH1	BZ	MESIC MIXED GRASSLAND	322	1	
	GREAT HORNED OWL	BUV11	BZ	MESIC MIXED GRASSLAND	322	2	

TABLE 3-7. RAPTOR HABITAT USE DURING 1996

SEASON	SPECIES NAME	SPEC CODE	ADMN AREA	HABITAT NAME	HAB TYPE	TOTAL OBSERVED	PERCENT BY HABITAT
	RED-TAILED HAWK	BUJA1	BZ	MESIC MIXED GRASSLAND	322	7	
	SHORT-EARED OWL	ASFL1	BZ	MESIC MIXED GRASSLAND	322	1	
	SWAINSON'S HAWK	BUSW1	BZ	MESIC MIXED GRASSLAND	322	2	
	% TOTAL OBSERVED MESIC MIXED GRASSLAND HABITAT-SUMMER						17
	AMERICAN KESTREL	FASP1	BZ	XERIC MIXED GRASSLAND	323	6	
	RED-TAILED HAWK	BUJA1	BZ	XERIC MIXED GRASSLAND	323	2	
	SWAINSON'S HAWK	BUSW1	BZ	XERIC MIXED GRASSLAND	323	1	
	PEREGRINE FALCON	FAPE1	BZ	XERIC MIXED GRASSLAND	323	1	
	% TOTAL OBSERVED XERIC MIXED GRASSLAND HABITAT-SUMMER						9
	NORTHERN HARRIER	CICY1	BZ	ANNUAL GRASS/FORB	410	1	
	% TOTAL OBSERVED ANNUAL GRASS/FORB HABITAT-SUMMER						1
	GREAT HORNED OWL	BUV11	BZ	BUILDING	520	1	
	% TOTAL OBSERVED BUILDING HABITAT-SUMMER						1
	GREAT HORNED OWL	BUV11	BZ	FENCE	560	1	
	% TOTAL OBSERVED FENCE HABITAT-SUMMER						1
FALL	NORTHERN HARRIER	CICY1	BZ	WET MEADOW	10	2	
	% TOTAL OBSERVED WET MEADOW HABITAT-FALL						3
	AMERICAN KESTREL	FASP1	BZ	SHORT MARSH	20	1	
	NORTHERN HARRIER	CICY1	BZ	SHORT MARSH	20	1	
	% TOTAL OBSERVED SHORT MARSH HABITAT-FALL						3
	AMERICAN KESTREL	FASP1	BZ	TALL MARSH	30	1	
	TALL MARSH HABITAT-FALL						1
	RED-TAILED HAWK	BUJA1	BZ	IMPOUNDMENT MUDFLAT	93	1	
	% TOTAL OBSERVED IMPOUNDMENT MUDFLAT HABITAT-FALL						1
	AMERICAN KESTREL	FASP1	BZ	RIPARIAN WOODLAND	110	2	
	BALD EAGLE	HALE1	EA	RIPARIAN WOODLAND	110	1	
	COOPER'S HAWK	ACCO1	BZ	RIPARIAN WOODLAND	110	1	
	FERRUGINOUS HAWK	BURE1	EA	RIPARIAN WOODLAND	110	1	
	GOLDEN EAGLE	AQCH1	BZ	RIPARIAN WOODLAND	110	1	
	GREAT HORNED OWL	BUV11	BZ	RIPARIAN WOODLAND	110	16	
	RED-TAILED HAWK	BUJA1	BZ	RIPARIAN WOODLAND	110	4	
	% TOTAL OBSERVED RIPARIAN WOODLAND HABITAT-FALL						35
	GREAT HORNED OWL	BUV11	BZ	PONDEROSA WOODLAND	120	1	
	% TOTAL OBSERVED WET MEADOW HABITAT-FALL						1

TABLE 3-7. RAPTOR HABITAT USE DURING 1996

SEASON	SPECIES NAME	SPEC CODE	ADMN AREA	HABITAT NAME	HAB TYPE	TOTAL OBSERVED	PERCENT BY HABITAT
	GREAT HORNED OWL	BUVI1	BZ	RIPARIAN SHRUBLAND-SALIX	212	2	
	NORTHERN HARRIER	CICY1	BZ	RIPARIAN SHRUBLAND-SALIX	212	2	
	RED-TAILED HAWK	BUJA1	BZ	RIPARIAN SHRUBLAND-SALIX	212	1	
	% TOTAL OBSERVED RIPARIAN SHRUBLAND-SALIX HABITAT-FALL						7
	GREAT HORNED OWL	BUVI1	BZ	TALL UPLAND SHRUBLAND	230	3	
	LONG-EARED OWL	ASOT1	BZ	TALL UPLAND SHRUBLAND	230	2	
	NORTHERN HARRIER	CICY1	BZ	TALL UPLAND SHRUBLAND	230	1	
	RED-TAILED HAWK	BUJA1	BZ	TALL UPLAND SHRUBLAND	230	1	
	% TOTAL OBSERVED TALL UPLAND SHRUBLAND HABITAT-FALL						9
	AMERICAN KESTREL	FASP1	BZ	MESIC MIXED GRASSLAND	322	6	
	GOLDEN EAGLE	AQCH1	BZ	MESIC MIXED GRASSLAND	322	1	
	RED-TAILED HAWK	BUJA1	BZ	MESIC MIXED GRASSLAND	322	1	
	SHARP-SHINNED HAWK	ACST1	BZ	MESIC MIXED GRASSLAND	322	1	
	AMERICAN KESTREL	FASP1	BZ	MESIC MIXED GRASSLAND	322	1	
	GOLDEN EAGLE	AQCH1	BZ	MESIC MIXED GRASSLAND	322	1	
	PRAIRIE FALCON	FAME1	BZ	MESIC MIXED GRASSLAND	322	1	
	% TOTAL OBSERVED MESIC MIXED GRASSLAND HABITAT-FALL						16
	RED-TAILED HAWK	BUJA1	BZ	XERIC MIXED GRASSLAND	323	3	
	TURKEY VULTURE	CAAU1	BZ	XERIC MIXED GRASSLAND	323	2	
	AMERICAN KESTREL	FASP1	BZ	XERIC MIXED GRASSLAND	323	1	
	RED-TAILED HAWK	BUJA1	BZ	XERIC MIXED GRASSLAND	323	1	
	SWAINSON'S HAWK	BUSW1	BZ	XERIC MIXED GRASSLAND	323	2	
	% TOTAL OBSERVED XERIC MIXED GRASSLAND HABITAT-FALL						12
	AMERICAN KESTREL	FASP1	BZ	RECLAIMED GRASSLAND	324	3	
	NORTHERN HARRIER	CICY1	BZ	RECLAIMED GRASSLAND	324	1	
	RED-TAILED HAWK	BUJA1	BZ	RECLAIMED GRASSLAND	324	1	
	% TOTAL OBSERVED RECLAIMED GRASSLAND HABITAT-FALL						7
	GREAT HORNED OWL	BUVI1	BZ	BUILDING	520	4	
	% TOTAL OBSERVED BUILDING HABITAT-FALL						5
WINTER	AMERICAN KESTREL	FASP1	BZ	SHORT MARSH	20	1	
	NORTHERN HARRIER	CICY1	BZ	SHORT MARSH	20	2	
	ROUGH-LEGGED HAWK	BULA1	BZ	SHORT MARSH	20	1	
	ROUGH-LEGGED HAWK	BULA1	BZ	SHORT MARSH	20	2	
	% TOTAL OBSERVED SHORT MARSH HABITAT-WINTER						7
	RED-TAILED HAWK	BUJA1	BZ	TALL MARSH	30	1	1
	% TOTAL OBSERVED TALL MARSH HABITAT-WINTER						1

TABLE 3-7. RAPTOR HABITAT USE DURING 1996

SEASON	SPECIES NAME	SPEC CODE	ADMN AREA	HABITAT NAME	HAB TYPE	TOTAL OBSERVED	PERCENT BY HABITAT
	BALD EAGLE	HALE1	EA	RIPARIAN WOODLAND	110	5	
	BALD EAGLE	HALE1	BZ	RIPARIAN WOODLAND	110	1	
	FERRUGINOUS HAWK	BURE1	BZ	RIPARIAN WOODLAND	110	1	
	GOLDEN EAGLE	AQCH1	EA	RIPARIAN WOODLAND	110	2	
	GOLDEN EAGLE	AQCH1	BZ	RIPARIAN WOODLAND	110	1	
	GREAT HORNED OWL	BUV11	BZ	RIPARIAN WOODLAND	110	26	
	NORTHERN HARRIER	CICY1	BZ	RIPARIAN WOODLAND	110	1	
	PRAIRIE FALCON	FAME1	BZ	RIPARIAN WOODLAND	110	1	
	RED-TAILED HAWK	BUJA1	BZ	RIPARIAN WOODLAND	110	2	
	ROUGH-LEGGED HAWK	BULA1	BZ	RIPARIAN WOODLAND	110	3	
	% TOTAL OBSERVED RIPARIAN WOODLAND HABITAT-WINTER						49
	RED-TAILED HAWK	BUJA1	BZ	RIPARIAN SHRUBLAND-SALIX	212	2	
	% TOTAL OBSERVED RIPARIAN SHRUBLAND-SALIX HABITAT-WINTER						2
	GOLDEN EAGLE	AQCH1	BZ	TALL UPLAND SHRUBLAND	230	1	
	GREAT HORNED OWL	BUV11	BZ	TALL UPLAND SHRUBLAND	230	1	
	% TOTAL OBSERVED TALL UPLAND SHRUBLAND HABITAT-WINTER						2
	AMERICAN KESTREL	FASP1	EA	MESIC MIXED GRASSLAND	322	1	
	AMERICAN KESTREL	FASP1	BZ	MESIC MIXED GRASSLAND	322	3	
	GOLDEN EAGLE	AQCH1	BZ	MESIC MIXED GRASSLAND	322	2	
	NORTHERN HARRIER	CICY1	BZ	MESIC MIXED GRASSLAND	322	4	
	PRAIRIE FALCON	FAME1	BZ	MESIC MIXED GRASSLAND	322	2	
	RED-TAILED HAWK	BUJA1	BZ	MESIC MIXED GRASSLAND	322	1	
	ROUGH-LEGGED HAWK	BULA1	BZ	MESIC MIXED GRASSLAND	322	3	
	SHORT-EARED OWL	ASFL1	BZ	MESIC MIXED GRASSLAND	322	1	
	% TOTAL OBSERVED MESIC MIXED GRASSLAND HABITAT-WINTER						20
	GOLDEN EAGLE	AQCH1	BZ	XERIC MIXED GRASSLAND	323	3	
	NORTHERN HARRIER	CICY1	BZ	XERIC MIXED GRASSLAND	323	2	
	RED-TAILED HAWK	BUJA1	BZ	XERIC MIXED GRASSLAND	323	2	
	ROUGH-LEGGED HAWK	BULA1	BZ	XERIC MIXED GRASSLAND	323	2	
	% TOTAL OBSERVED SHORT MARSH HABITAT-WINTER						10
	AMERICAN KESTREL	FASP1	IA	RECLAIMED GRASSLAND	324	1	
	MERLIN	FACO1	BZ	RECLAIMED GRASSLAND	324	1	
	% TOTAL OBSERVED RECLAIMED GRASSLAND HABITAT-WINTER						2
	GREAT HORNED OWL	BUV11	BZ	BUILDING	520	6	
	% TOTAL OBSERVED BUILDING HABITAT-WINTER						7
	TOTAL OBSERVATIONS OF RAPTORS DURING 1996						391

TABLE 3-8. HERPTILE HABITAT USE DURING 1996

SEASON	SPECIES NAME	SPEC CODE	ADMN AREA	HABITAT NAME	HAB TYPE	TOTAL OBSERVED	PERCENT BY HABITAT
SPRING							
	AMPHIBIANS-FROGS						
	BOREAL CHORUS FROG	PSTR1	BZ	SHORT MARSH	20	38	
	BOREAL CHORUS FROG	PSTR1	BZ	TALL MARSH	30	14	
	BOREAL CHORUS FROG	PSTR1	BZ	STREAM RIFFLE	41	5	
	BOREAL CHORUS FROG	PSTR1	BZ	INTERMITTENT STREAM POOL	43	14	
	BOREAL CHORUS FROG	PSTR1	BZ	INTERMITTENT STREAM POOL	43	6	
	BOREAL CHORUS FROG	PSTR1	BZ	DITCH POOL	49	9	
	BOREAL CHORUS FROG	PSTR1	BZ	NATURAL POND	51	4	
	BOREAL CHORUS FROG	PSTR1	BZ	IMPOUNDMENT	54	120	
	BOREAL CHORUS FROG	PSTR1	BZ	RIPARIAN SHRUBLAND-AMORPHA	211	3	
	BOREAL CHORUS FROG	PSTR1	BZ	RIPARIAN SHRUBLAND-SALIX	212	4	
	BOREAL CHORUS FROG	PSTR1	BZ	RIPARIAN SHRUBLAND-SALIX	212	4	
	BOREAL CHORUS FROG	PSTR1	BZ	TALL UPLAND SHRUBLAND	230	6	
	% TOTAL OBSERVED IN WETLAND/RIPARIAN HABITAT-SPRING						96
	BOREAL CHORUS FROG	PSTR1	BZ	MESIC MIXED GRASSLAND	322	4	
	BOREAL CHORUS FROG	PSTR1	IA	RECLAIMED GRASSLAND	324	5	
	% TOTAL OBSERVED IN UPLAND HABITAT-SPRING						4
	TURTLES						
	WESTERN PAINTED TURTLE	CHPI1	BZ	IMPOUNDMENT	54	4	
	WESTERN PAINTED TURTLE	CHPI1	BZ	IMPOUNDMENT MUDFLAT	93	2	
	WESTERN PAINTED TURTLE	CHPI1	BZ	RIPARIAN WOODLAND	110	1	
	WESTERN PAINTED TURTLE	CHPI1	BZ	ROCK AND GRAVEL PILES (RIPRAP)	530	1	
	% TOTAL OBSERVED IN WETLAND/RIPARIAN HABITAT-SPRING						100
	SNAKES						
	PRAIRIE RATTLESNAKE	CRVI1	BZ	MESIC MIXED GRASSLAND	322	1	
	PRAIRIE RATTLESNAKE	CRVI1	BZ	DISTURBED BARREN LANDS	420	2	
	PRAIRIE RATTLESNAKE	CRVI1	BZ	ROCK AND GRAVEL PILES	530	1	
	% TOTAL OBSERVED IN UPLAND HABITAT-SPRING						100
SUMMER							
	AMPHIBIANS-FROGS						
	BOREAL CHORUS FROG	PSTR1	BZ	SHORT MARSH	20	2	
	BOREAL CHORUS FROG	PSTR1	BZ	INTERMITTENT STREAM POOL	43	4	
	BULLFROG	RACA1	BZ	IMPOUNDMENT	54	1	
	NORTHERN LEOPARD FROG	RAPI1	BZ	PERSISTENT STREAM POOL	46	1	
	% TOTAL OBSERVED IN WETLAND/RIPARIAN HABITAT-SUMMER						89
	NORTHERN LEOPARD FROG	RAPI1	BZ	MESIC MIXED GRASSLAND	322	1	
	% TOTAL OBSERVED IN UPLAND HABITAT-SUMMER						11

TABLE 3-8. HERPTILE HABITAT USE DURING 1996

SEASON	SPECIES NAME	SPEC CODE	ADMN AREA	HABITAT NAME	HAB TYPE	TOTAL OBSERVED	PERCENT BY HABITAT
FALL	TURTLES						
	WESTERN PAINTED TURTLE	CHPI1	BZ	TALL MARSH	30	3	
	WESTERN PAINTED TURTLE	CHPI1	BZ	IMPOUNDMENT	54	16	
	% TOTAL OBSERVED IN WETLAND HABITAT-SUMMER						95
	WESTERN PAINTED TURTLE	CHPI1	BZ	DISTURBED BARREN LANDS	420	1	
	% TOTAL OBSERVED IN UPLAND HABITAT-SUMMER						5
	SNAKES						
	PRAIRIE RATTLESNAKE	CRVI1	BZ	WET MEADOW	10	1	
	RED-SIDED GARTER SNAKE	THSI1	BZ	INTERMITTENT STREAM POOL	43	1	
	WESTERN PLAINS GARTER SNAKE	THRA1	BZ	INTERMITTENT STREAM POOL	43	1	
	PRAIRIE RATTLESNAKE	CRVI1	BZ	RIPARIAN SHRUBLAND-AMORPHA	211	1	
	% TOTAL OBSERVED IN WETLAND/RIPARIAN HABITAT-SUMMER						80
	PRAIRIE RATTLESNAKE	CRVI1	BZ	MESIC MIXED GRASSLAND	322	1	
	% TOTAL OBSERVED IN UPLAND HABITAT-SUMMER						20
	LIZARDS						
	SHORT-HORNED LIZARD	PHDO1	BZ	XERIC MIXED GRASSLAND	323	2	
	% TOTAL OBSERVED IN UPLAND HABITAT-SUMMER						100
	AMPHIBIANS-FROGS						
	BULLFROG	RACA1	BZ	SHORT MARSH	20	1	
	% TOTAL OBSERVED IN WETLAND HABITAT-FALL						100
	AMPHIBIANS-SALAMANDERS						
	TIGER SALAMANDER	AMTI1	IA	BUILDING	520	1	
	% TOTAL OBSERVED IN UPLAND HABITAT-FALL						100
	TURTLES						
	WESTERN PAINTED TURTLE	CHPI1	BZ	SHORT MARSH	20	1	
	WESTERN PAINTED TURTLE	CHPI1	BZ	IMPOUNDMENT	54	4	
	WESTERN PAINTED TURTLE	CHPI1	BZ	IMPOUNDMENT	54	2	
	WESTERN PAINTED TURTLE	CHPI1	BZ	IMPOUNDMENT MUDFLAT	93	1	
	% TOTAL OBSERVED IN WETLAND HABITAT-FALL						100
	SNAKES						
	PRAIRIE RATTLESNAKE	CRVI1	BZ	MESIC MIXED GRASSLAND	322	1	
	PRAIRIE RATTLESNAKE	CRVI1	BZ	MESIC MIXED GRASSLAND	322	1	
	% TOTAL OBSERVED IN UPLAND HABITAT-FALL						100
	TOTAL OBSERVATIONS OF HERPTILES DURING 1996						296

TABLE 3-9. BIRD DISTRIBUTION BY HABITAT AT ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE BASED ON DATA FROM 1991, AND 1993 -1996

Species	Species	Seasonal Abundance				Habitats				Neotrop	Breeding		
Common Name	Scientific Name	Sp	Su	Fa	Wi	G	D	T	R	W	M	Mig (1)	Status
GREBES	PODICIPEDIDAE												
Western Grebe	<i>Aechmophorus occidentalis</i>	R										X	
Eared Grebe	<i>Podiceps nigricollis</i>	R		R								X	
Pied-billed Grebe	<i>Podilymbus podiceps</i>	U	U	U								X	Confirmed
PELICANS	PELECANIDAE												
American White Pelican (2)	<i>Pelecanus erythrorhynchos</i>	O	O									X	
CORMORANTS	PHALACROCORACIDAE												
Double-crested Cormorant	<i>Phalacrocorax auritus</i>	O	U	O				X				X	
HERONS	ARDEIDAE												
Great Blue Heron	<i>Ardea herodias</i>	U	C	U			X		X	X	X		
Green-backed Heron	<i>Butorides striatus</i>	O										X	
Black-crowned Night-heron	<i>Nycticorax nycticorax</i>	U	C					X	X	X	X		Confirmed
White-faced Ibis* (3)	<i>Plegadis chihi</i>		R									X	
GEESE AND DUCKS	ANATIDAE												
Wood Duck	<i>Aix sponsa</i>		R									X	Confirmed
Northern Pintail	<i>Anas acuta</i>	O	O									X	
American Wigeon	<i>Anas americana</i>	O	O		O							X	
Northern Shoveler	<i>Anas clypeata</i>	U	U									X	
Green-winged Teal	<i>Anas crecca</i>	C	U	O	U							X	
Cinnamon Teal	<i>Anas cyanoptera</i>	C	O									X	
Blue-winged Teal	<i>Anas discors</i>	C	O	C								X	Confirmed
Mallard	<i>Anas platyrhynchos</i>	A	A	C	C	X	X		X	X	X		Confirmed
Gadwall	<i>Anas strepera</i>	C	U	U								X	Confirmed
Greater Scaup	<i>Atthya marila</i>	O		O								X	
Lesser Scaup	<i>Aythya affinis</i>	C		U	U							X	
Redhead	<i>Aythya americana</i>	U	U		U							X	Confirmed
Ring-necked Duck	<i>Aythya collaris</i>	U		U								X	
Canvasback	<i>Aythya valisineria</i>				U							X	
Canada Goose	<i>Branta canadensis</i>	U	U	U	U	X			X	X			Confirmed
Bufflehead	<i>Bucephala albeola</i>	U		C	U		X			X	X		
Common Goldeneye	<i>Bucephala clangula</i>	U		U	U							X	
Snow Goose	<i>Chen caerulescens</i>			U		X						X	
Hooded Merganser	<i>Lophodytes cucullatus</i>	O										X	
Common Merganser	<i>Mergus merganser</i>	U		O								X	
Ruddy Duck*	<i>Oxyura jamaciensis</i>	R	R	R								X	Confirmed
AMERICAN VULTURES	CATHARTIDAE												
Turkey Vulture	<i>Cathartes aura</i>	O	O	O		X	X	X	X	X	X	Yes	
EAGLES AND HAWKS	ACCIPITRIDAE												
Cooper's Hawk	<i>Accipiter cooperii</i>		O			X						Yes	
Northern Goshawk (3)	<i>Accipiter gentilis</i>				R	X		X				Yes	
Sharp-shinned Hawk	<i>Accipiter striatus</i>	U		U		X	X		X	X		Yes	
Golden Eagle	<i>Aquila chrysaetos</i>	O	O	O	O	X	X	X	X	X	X	Yes	
Red-tailed Hawk	<i>Buteo jamaicensis</i>	C	C	C	C	X	X	X	X	X	X	Yes	Confirmed
Rough-legged Hawk	<i>Buteo lagopus</i>	O		C	C	X	X	X	X	X	X		
Ferruginous Hawk (2,3)	<i>Buteo regalis</i>	O	O	O	C	X	X	X	X	X	X	Yes	
Swainson's Hawk	<i>Buteo swainsoni</i>	U	U	O		X		X	X	X	X	Yes	Confirmed
Northern Harrier	<i>Circus cyaneus</i>	O	U	O	U	X	X	X	X	X	X	Yes	Suspected
Bald Eagle (4)	<i>Haliaeetus leucocephalus</i>			O	O	X		X			X		
FALCONS	FALCONIDAE												
Merlin	<i>Falco columbarius</i>	R			R	X			X	X		Yes	
Prairie Falcon	<i>Falco mexicanus</i>	O		O	O	X	X	X	X	X	X	Yes	
Peregrine Falcon (4)	<i>Falco peregrinus</i>	R		R	R	X		X	X	X	X	Yes	
American Kestrel	<i>Falco sparverius</i>	O	U	U	O	X	X	X	X	X	X	Yes	Confirmed

TABLE 3-9. BIRD DISTRIBUTION BY HABITAT AT ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE BASED ON DATA FROM 1991, AND 1993 -1996

Species Common Name	Species Scientific Name	Seasonal Abundance				Habitats				Neotro	Breeding
		Sp	Su	Fa	Wi	G	D	T	R	M	Mig (1) Status
GREBES	PODICIPEDIDAE										
Western Grebe	<i>Aechmophorus occidentalis</i>	R								X	
Eared Grebe	<i>Podiceps nigricollis</i>	R		R						X	
Pied-billed Grebe	<i>Podilymbus podiceps</i>	U	U	U						X	Confirmed
PELICANS	PELECANIDAE										
American White Pelican (2)	<i>Pelecanus erythrorhynchos</i>	O	O							X	
CORMORANTS	PHALACROCORACIDAE										
Double-crested Cormorant	<i>Phalacrocorax auritus</i>	O	U	O			X			X	
HERONS	ARDEIDAE										
Great Blue Heron	<i>Ardea herodias</i>	U	C	U		X		X	X	X	
Green-backed Heron	<i>Butorides striatus</i>	O								X	
Black-crowned Night-heron	<i>Nycticorax nycticorax</i>	U	C				X	X	X	X	Confirmed
White-faced Ibis* (3)	<i>Plegadis chihi</i>		R							X	
GEESE AND DUCKS	ANATIDAE										
Wood Duck	<i>Aix sponsa</i>		R							X	Confirmed
Northern Pintail	<i>Anas acuta</i>	O	O							X	
American Wigeon	<i>Anas americana</i>	O	O		O					X	
Northern Shoveler	<i>Anas clypeata</i>	U	U							X	
Green-winged Teal	<i>Anas crecca</i>	C	U	O	U					X	
Cinnamon Teal	<i>Anas cyanoptera</i>	C	O							X	
Blue-winged Teal	<i>Anas discors</i>	C	O	C						X	Confirmed
Mallard	<i>Anas platyrhynchos</i>	A	A	C	C	X	X	X	X	X	Confirmed
Gadwall	<i>Anas strepera</i>	C	U	U						X	Confirmed
Greater Scaup	<i>Atthya marila</i>	O		O						X	
Lesser Scaup	<i>Aythya affinis</i>	C		U	U					X	
Redhead	<i>Aythya americana</i>	U	U		U					X	Confirmed
Ring-necked Duck	<i>Aythya collaris</i>	U		U						X	
Canvasback	<i>Aythya valisineria</i>				U					X	
Canada Goose	<i>Branta canadensis</i>	U	U	U	U	X			X	X	Confirmed
Bufflehead	<i>Bucephala albeola</i>	U		C	U	X			X	X	
Common Goldeneye	<i>Bucephala clangula</i>	U		U	U					X	
Snow Goose	<i>Chen caerulescens</i>			U		X				X	
Hooded Merganser	<i>Lophodytes cucullatus</i>	O								X	
Common Merganser	<i>Mergus merganser</i>	U		O						X	
Ruddy Duck*	<i>Oxyura jamaicensis</i>	R	R	R						X	Confirmed
AMERICAN VULTURES	CATHARTIDAE										
Turkey Vulture	<i>Cathartes aura</i>	O	O	O		X	X	X	X	X	Yes
EAGLES AND HAWKS	ACCIPITRIDAE										
Cooper's Hawk	<i>Accipiter cooperii</i>		O			X					Yes
Northern Goshawk (3)	<i>Accipiter gentilis</i>				R	X	X				Yes
Sharp-shinned Hawk	<i>Accipiter striatus</i>	U		U		X	X	X	X		Yes
Golden Eagle	<i>Aquila chrysaetos</i>	O	O	O	O	X	X	X	X	X	Yes
Red-tailed Hawk	<i>Buteo jamaicensis</i>	C	C	C	C	X	X	X	X	X	Yes
Rough-legged Hawk	<i>Buteo lagopus</i>	O		C	C	X	X	X	X	X	
Ferruginous Hawk (2,3)	<i>Buteo regalis</i>	O	O	O	C	X	X	X	X	X	Yes
Swainson's Hawk	<i>Buteo swainsoni</i>	U	U	O		X	X	X	X	X	Yes
Northern Harrier	<i>Circus cyaneus</i>	O	U	O	U	X	X	X	X	X	Yes
Bald Eagle (4)	<i>Haliaeetus leucocephalus</i>			O	O	X	X			X	
FALCONS	FALCONIDAE										
Merlin	<i>Falco columbarius</i>	R			R	X		X	X		Yes
Prairie Falcon	<i>Falco mexicanus</i>	O		O	O	X	X	X	X		Yes
Peregrine Falcon (4)	<i>Falco peregrinus</i>	R		R	R	X	X	X	X		Yes
American Kestrel	<i>Falco sparverius</i>	O	U	U	O	X	X	X	X	X	Yes

TABLE 3-9. BIRD DISTRIBUTION BY HABITAT AT ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE BASED ON DATA FROM 1991, AND 1993 -1996

Species Common Name	Species Scientific Name	Seasonal Abundance				Habitats				Neotro	Breeding
		Sp	Su	Fa	Wi	G	D	T	R	M	Mig (1) Status
GROUSE AND TURKEYS	PHASIANIDAE										
Wild Turkey	<i>Meleagris gallopavo</i>	R				X					
Ring-necked Pheasant	<i>Phasianus colchicus</i>	U	U	U	U	X			X X X		Suspected
RAILS AND COOTS	RALLIDAE										
American Coot	<i>Fulica americana</i>	U	U	U		X			X X		Confirmed
Sora	<i>Porzana carolina</i>		U							X	Suspected
Virginia Rail	<i>Rallus limicola</i>	U								X	Suspected
CRANES	GRUIDAE										
Sandhill Crane (2)	<i>Grus canadensis</i>			O		X				X	
PLOVERS	CHARADRIIDAE										
Killdeer	<i>Charadrius vociferus</i>	C	C	U		X X		X X X			Confirmed
STILTS AND AVOCETS	RECURVIROSTRIDAE										
American Avocet	<i>Recurvirostra americana</i>	U								X	
SANDPIPERS AND ALLIES	SCOLOPACIDAE										
Spotted Sandpiper	<i>Actitis macularia</i>	C	U							X	
Semipalmated Sandpiper*	<i>Calidris pusilla</i>		R							X	
Pectoral Sandpiper	<i>Calidris melanotos</i>	O	O							X	
Willet	<i>Catoptrophorus semipalmatus</i>	U	O							X	
Common Snipe	<i>Gallinago gallinago</i>	U	C	U					X X X		Confirmed
Long-billed Dowitcher	<i>Limnodromus scolopaceus</i>	O								X	
Long-billed Curlew (2)	<i>Numenius americanus</i>	R			R	X X					Yes
Wilson's Phalarope	<i>Phalaropus tricolor</i>	U								X	
Lesser Yellowlegs	<i>Tringa flavipes</i>	O	O							X	
Greater Yellowlegs	<i>Tringa melanoleuca</i>		R							X	
Solitary Sandpiper	<i>Tringa solitaria</i>	U	O							X	
GULLS	LARIDAE										
Ring-billed Gull	<i>Larus delawarensis</i>	C	O	O	O	X		X X		X	
Franklin's Gull	<i>Larus pipixcan</i>			O		X				X	
PIGEONS AND DOVES	COLUMBIDAE										
Band-tailed Pigeon	<i>Columba fasciata</i>		O			X					Yes Confirmed
Rock Dove	<i>Columba livia</i>	C	C	C	C	X X		X X X			Confirmed
Mourning Dove	<i>Zenaidura macroura</i>	C	C	C		X X X X X X					Confirmed
OWLS	STRIGIDAE										
Short-eared Owl	<i>Asio flammeus</i>	O	O	O	O	X		X X X		Yes	
Long-eared Owl	<i>Asio otus</i>		O	O				X X X		Yes	
Burrowing Owl (3)	<i>Athene cunicularia</i>	R	R			X				Yes	
Great Horned Owl	<i>Bubo virginianus</i>	C	C	C	C	X X X X X X					Confirmed
NIGHT JARS	CAPRIMULGIDAE										
Common Nighthawk	<i>Chordeiles minor</i>	U	U			X X X		X X		Yes	Confirmed
Common Poorwill	<i>Phalaenoptilus nuttallii</i>		C			X X				Yes	
SWIFTS	APODIDAE										
Black Swift (3)	<i>Cypseloides niger</i>	R				X				Yes	
HUMMINGBIRDS	TROCHILIDAE										
Broad-tailed Hummingbird	<i>Selasphorus platycercus</i>		O			X X X		X		Yes	Suspected
Rufous Hummingbird	<i>Selasphorus rufus</i>		O					X		Yes	
KINGFISHERS	ALCEDINIDAE										
Belted Kingfisher	<i>Ceryle alcyon</i>	O	O	O					X X	Yes	
WOODPECKERS	PICIDAE										
Northern Flicker	<i>Colaptes auratus</i>	U	U	C	C	X X X X X					Suspected
Downy Woodpecker	<i>Picoides pubescens</i>		O	O	O			X X X			Suspected
Hairy Woodpecker	<i>Picoides villosus</i>			O				X X X			
Red-naped Sapsucker	<i>Sphyrapicus nuchalis</i>			O					X	Yes	

TABLE 3-9. BIRD DISTRIBUTION BY HABITAT AT ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE BASED ON DATA FROM 1991, AND 1993 -1996

Species Common Name	Species Scientific Name	Seasonal Abundance				Habitats				Neotro	Breeding
		Sp	Su	Fa	Wi	G	D	T	R	M	Mig (1) Status
TYRANT FLYCATCHERS	TYRANNIDAE										
Olive-sided Flycatcher	<i>Contopus borealis</i>			O					X	Yes	
Western Wood-Pewee	<i>Contopus sordidulus</i>	U	U	O		X	X	X	X	Yes	
Hammond's Flycatcher	<i>Empidonax hammondi</i>	U							X	Yes	
Dusky Flycatcher	<i>Empidonax oberholseri</i>	U		O					X	Yes	
Cordilleran Flycatcher	<i>Empidonax occidentalis</i>	U		O				X	X	Yes	
Willow Flycatcher	<i>Empidonax traillii</i>	U							X	Yes	
Ash-throated Flycatcher	<i>Myiarchus cinerascens</i>	R						X		Yes	
Eastern Phoebe	<i>Sayornis phoebe</i>	R							X	Yes	
Say's Phoebe	<i>Sayornis saya</i>	C	C	U		X	X	X	X	Yes	Confirmed
Scissor-tailed Flycatcher	<i>Tyrannus forficatus</i>	R				X				Yes	
Eastern Kingbird	<i>Tyrannus tyrannus</i>	O	C			X	X	X	X	Yes	Confirmed
Western Kingbird	<i>Tyrannus verticalis</i>	C	C	U		X	X	X	X	Yes	Confirmed
LARKS	ALAUDIDAE										
Horned Lark	<i>Eremophila alpestris</i>	U	O	U	C	X	X	X	X	Yes	Confirmed
SWALLOWS	HIRUNDINIDAE										
Cliff Swallow	<i>Hirundo pyrrhonota</i>	U	C	U		X	X	X	X	Yes	Confirmed
Barn Swallow	<i>Hirundo rustica</i>	C	A	U		X	X	X	X	Yes	Confirmed
Northern Rough-winged Swallow	<i>Steigodopteryx serripennis</i>	O				X			X	Yes	
Tree Swallow	<i>Tachycineta bicolor</i>	C	C	O		X	X	X	X	Yes	Suspected
Violet-green Swallow	<i>Tachycineta thalassina</i>	U	U			X	X	X	X	Yes	Suspected
CROWS, JAYS, MAGPIES	CORVIDAE										
American Crow	<i>Corvus brachyrhynchos</i>	O	O	O	O	X	X		X		
Common Raven	<i>Corvus corax</i>	U	O	O	U	X	X	X	X		Confirmed
Blue Jay	<i>Cyanocitta cristata</i>		U	U		X	X	X	X		
Pinyon Jay	<i>Gymnorhinus cyanocephalus</i>		O						X		
Black-billed Magpie	<i>Pica pica</i>	C	C	C	C	X	X	X	X		Confirmed
TITMICE	PARIDAE										
Black-capped Chickadee	<i>Parus atricapillus</i>	O	O	O	O		X	X	X		Confirmed
Mountain Chickadee *	<i>Parus gambeli</i>	R							X		
NUTHATCHES	SITIIDAE										
Red-breasted Nuthatch	<i>Sitta canadensis</i>			R					X		
White-breasted Nuthatch	<i>Sitta carolinensis</i>	U							X		
WRENS	TROGLODYTIDAE										
Marsh Wren	<i>Cistothorus palustris</i>	U	U	U		X			X	Yes	Suspected
Rock Wren	<i>Salpinctes obsoletus</i>	C	C	U		X	X		X		
House Wren	<i>Troglodytes aedon</i>	U	O	O		X	X	X	X	Yes	Suspected
Winter Wren	<i>Troglodytes troglodytes</i>			R					X		
MUSCICAPIDS	MUSCICAPIDAE										
Hermit Thrush	<i>Catharus guttatus</i>	U					X	X	X	Yes	
Swainson's Thrush	<i>Catharus ustulatus</i>		U				X	X		Yes	
Townsend's Solitaire	<i>Myadestes townsendi</i>	U			O				X	Yes	
Blue-gray Gnatcatcher	<i>Polioptila caerulea</i>	U		R			X	X	X	Yes	Confirmed
Ruby-crowned Kinglet	<i>Regulus calendula</i>			C					X	Yes	Suspected
Golden-crowned Kinglet	<i>Regulus satrapa</i>		R				X	X	X		
Mountain Bluebird	<i>Sialia currucoides</i>	U		U		X	X			Yes	
American Robin	<i>Turdus migratorius</i>	C	C	U	O	X	X	X	X	Yes	Confirmed
THRASHERS	MIMIDAE										
Gray Catbird	<i>Dumetella carolinensis</i>	U	U					X		Yes	Suspected
Northern Mockingbird *	<i>Mimus polyglottos</i>	R	R	R		X		X	X		Suspected
Sage Thrasher	<i>Oreoscoptes montanus</i>	U	U	U		X	X	X	X	Yes	Suspected
Brown Thrasher *	<i>Toxostoma rufum</i>		R					X			

TABLE 3-9. BIRD DISTRIBUTION BY HABITAT AT ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE BASED ON DATA FROM 1991, AND 1993 -1996

Species Common Name	Species Scientific Name	Seasonal Abundance				Habitats				Neotro	Breeding
		Sp	Su	Fa	Wi	G	D	T	R	M	Mig (1) Status
PIPITS	MOTACILLIDAE										
American Pipit	<i>Anthus rubescens</i>	U		U		X			X	Yes	
WAXWINGS	BOMBYCILLIDAE										
Bohemian Waxwing	<i>Bombycilla garrulus</i>				U			X			
SHRIKES	LANIIDAE										
Northern Shrike	<i>Lanius excubitor</i>				O				X		
Loggerhead Shrike (3)	<i>Lanius ludovicianus</i>	U	O	O	O	X	X	X	X	X	Yes Suspected
STARLINGS	STURNIDAE										
European Starling	<i>Sturnus vulgaris</i>	C	A	C	U	X	X	X	X	X	Confirmed
VIREOS	VIREONIDAE										
Warbling Vireo	<i>Vireo gilvus</i>	U	U						X	Yes	Suspected
Solitary Vireo	<i>Vireo solitarius</i>			O					X	Yes	
WOOD WARBLERS	EMBERIZIDAE: Parulinae										
Yellow-rumped Warbler	<i>Dendroica coronata</i>	C	O	C					X	X	Yes
Black-throated Gray Warbler	<i>Dendroica nigrescens</i>				R				X	X	Yes
Palm Warbler	<i>Dendroica palmarum</i>				R				X		Yes
Chestnut-sided Warbler	<i>Dendroica pensylvanica</i>		R						X		Yes Suspected
Yellow Warbler	<i>Dendroica petechia</i>	C	C	C		X	X	X	X	X	Yes Confirmed
Townsend's Warbler	<i>Dendroica townsendi</i>			O						X	Yes
Common Yellowthroat	<i>Geothlypis trichas</i>	U	C	C		X	X	X	X	X	Yes Confirmed
Yellow-breasted Chat	<i>Icteria virens</i>	U							X	X	Yes Suspected
MacGillivray's Warbler	<i>Oporornis tolmiei</i>			U		X	X	X	X	X	Yes
Ovenbird	<i>Seiurus aurocapillus</i>	R							X	X	Yes
American Redstart*	<i>Stetophaga ruticilla</i>	R							X		Yes
Virginia's Warbler	<i>Vermivora virginiae</i>			R						X	Yes
Wilson's Warbler	<i>Wilsonia pusilla</i>			U					X	X	Yes
TANAGERS	EMBERIZIDAE: Thraupinae										
Western Tanager	<i>Piranga ludoviciana</i>	U		U						X	Yes
GROSBEAKS AND ALLIES	EMBERIZIDAE: Cardinalinae										
Blue Grosbeak	<i>Guiraca caerulea</i>	U	C	U		X	X	X	X	X	Yes Confirmed
Lazuli Bunting	<i>Passerina amoena</i>	O	O						X	X	Yes
Indigo Bunting	<i>Passerina cyanea</i>	O	O							X	Yes
Black-headed Grosbeak	<i>Pheucticus melanocephalus</i>			O						X	Yes
TOWHEES AND SPARROWS	EMBERIZIDAE: Emberizinae										
Baird's Sparrow (3)	<i>Ammodramus bairdii</i>	R		R		X	X				Yes
Grasshopper Sparrow	<i>Ammodramus savannarum</i>	C	C	U		X	X	X	X	X	Yes Confirmed
Lark Bunting	<i>Calamospiza melanocorys</i>	O	O	O		X	X				Yes
Lapland Longspur	<i>Calcarius lapponicus</i>				O	X					
Chestnut-collared Longspur	<i>Calcarius ornatus</i>				R	X					Yes
Snow Bunting*	<i>Plectrophenax nivalis</i>			R		X					
Lark Sparrow	<i>Chondestes grammacus</i>		O	O					X	X	Yes Suspected
Dark-eyed Junco	<i>Junco hyemalis</i>	U	U	U	O	X	X	X	X	X	Yes Suspected
Lincoln's Sparrow	<i>Melospiza lincolnii</i>	U		U					X	X	Yes
Fox Sparrow*	<i>Passerella iliaca</i>			R					X		
Song Sparrow	<i>Melospiza melodia</i>	C	C	C	U	X	X	X	X	X	Confirmed
Savannah Sparrow	<i>Passerculus sandwichensis</i>	U	U	U		X	X	X	X	X	Yes Suspected
Green-tailed Towhee	<i>Pipilo chlorurus</i>	U	U	O					X	X	Yes Suspected
Rufous-sided Towhee	<i>Pipilo erythrophthalmus</i>	C	C	C	O	X	X	X	X	X	Yes Confirmed
Vesper Sparrow	<i>Poocetes gramineus</i>	A	A	C		X	X	X	X	X	Yes Confirmed
American Tree Sparrow	<i>Spizella arborea</i>	U		U	C	X	X	X	X	X	
Brewer's Sparrow	<i>Spizella breweri</i>		U	C		X	X	X	X	X	Yes
Field Sparrow*	<i>Spizella pusilla</i>		R						X		
Clay-colored Sparrow	<i>Spizella pallida</i>			U	U	X	X	X	X	X	Yes

TABLE 3-9. BIRD DISTRIBUTION BY HABITAT AT ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE BASED ON DATA FROM 1991, AND 1993 -1996

Species	Species	Seasonal Abundance				Habitats					Neotro	Breeding
Common Name	Scientific Name	Sp	Su	Fa	Wi	G	D	T	R	M	Mig (1)	Status
Chipping Sparrow	<i>Spizella passerina</i>	U	U	C	O	X	X	X	X	X	Yes	
White-crowned Sparrow	<i>Zonotrichia leucophrys</i>	C		C		X		X	X	X		
Harris' Sparrow	<i>Zonotrichia querula</i>				R					X		
MEADOWLARKS, BLACKBIRDS		EMBERIZIDAE: Icterinae										
Red-winged Blackbird	<i>Agelaius phoeniceus</i>	A	A	C	U	X	X	X	X	X	Yes	Confirmed
Brewer's Blackbird	<i>Euphagus cyanocephalus</i>	C	U	O		X	X	X	X	X	Yes	Confirmed
Northern Oriole	<i>Icterus galbula</i>	C	C			X		X	X	X	Yes	Confirmed
Brown-headed Cowbird	<i>Molothrus ater</i>	U	C			X		X	X	X	Yes	Suspected
Common Grackle	<i>Quiscalus quiscula</i>	U	C	O		X	X		X	X		Confirmed
Western Meadowlark	<i>Sturnella neglecta</i>	A	A	A	O	X	X	X	X	X	Yes	Confirmed
Yellow-headed Blackbird	<i>Xanthocephalus xanthocephalus</i>	C	C							X	Yes	Confirmed
FINCHES		FRINGILLIDAE										
Pine Siskin	<i>Carduelis pinus</i>	U	O	O	O	X		X	X	X	Yes	
Lesser Goldfinch	<i>Carduelis psaltria</i>	O	U	O		X	X	X	X	X	Yes	Suspected
American Goldfinch	<i>Carduelis tristis</i>	C	A	C	O	X	X	X	X	X	Yes	Confirmed
Cassin's Finch	<i>Carpodacus cassinii</i>	R							X		Yes	
Purple Finch*	<i>Carpodacus purpurea</i>			R					X			
House Finch	<i>Carpodacus mexicanus</i>	A	A	A	U	X	X	X	X	X		Confirmed
OLD WORLD SPARROWS		PASSERIDAE										
House Sparrow	<i>Passer domesticus</i>	C	C	C	C	X	X			X		Confirmed

DEFINITIONS

SEASONS

Sp = Spring
Su = Summer
Fa = Fall
Wi = Winter

HABITATS

G = Grassland
D = Disturbed
T = Tall Upland Shrubland
R = Riparian Shrubland
W = Woodland
M = Marshland

RELATIVE ABUNDANCE

(In appropriate habitat for species)
A = Abundant
C = Common
U = Uncommon
O = Occasional
R = Rare at the Site

NOTE

- (1) Neotropical Migrants are a passerine bird group of concern due to significant population declines over two continents.
 - (2) A Colorado Species of Special Concern
 - (3) Federal special-concern species
 - (4) Federal threatened or endangered species
- *New species for 1996

TABLE 3-10. SPECIES RICHNESS OF BIRD COMMUNITIES BY HABITAT

Habitat	Season	1991/92	1993/94	1994/95	1995/96	1996/97
Wetland	Breeding	24	30	29	25	24
	Winter	10	5	7	11	8
Riparian Woodland Complex	Breeding	28	28	31	33	33
	Winter	8	11	14	15	9
Riparian Shrubland - Amorpha	Breeding	16	19	16	18	13
	Winter	3	2	6	4	3
Tall Upland Shrub	Breeding	19	26	33	36	28
	Winter	6	7	13	10	10
Mesic Mixed Grassland	Breeding	14	12	24	20	17
	Winter	4	2	11	5	8
Xeric Mixed Grassland	Breeding	16	15	24	18	15
	Winter	4	6	8	9	5
Reclaimed Mixed Grassland	Breeding	12	19	18	18	17
	Winter	2	2	9	5	2
All Habitats	Breeding	45	49	51	48	48
	Winter	20	20	25	25	21
NeoTropical Migrants	Breeding	33	35	33	31	28
Number of Observations	Breeding	1321	1476	2158	1744	1704
	Winter	65	70	178	154	109

TABLE 3-11. SIMPLE MATCHING COEFFICIENT SIMILARITY INDEX FOR BIRD SPECIES RICHNESS BASED ON THE BREEDING SEASON IN MAJOR HABITATS

		Grassland Habitats					Woodland Habitats					Wetland Habitats				
		1991	1993	1994	1995	1996	1991	1993	1994	1995	1996	1991	1993	1994	1995	1996
Grassland Habitats	1991	1.00	0.84	0.83	0.84	0.84	0.74	0.67	0.67	0.61	0.70	0.80	0.80	0.82	0.79	0.80
	1993		1.00	0.79	0.83	0.80	0.70	0.70	0.68	0.64	0.69	0.74	0.77	0.80	0.75	0.74
	1994			1.00	0.89	0.79	0.79	0.74	0.74	0.68	0.73	0.78	0.78	0.84	0.79	0.73
	1995				1.00	0.88	0.80	0.78	0.75	0.74	0.74	0.79	0.82	0.88	0.85	0.79
	1996					1.00	0.70	0.65	0.65	0.62	0.69	0.82	0.79	0.78	0.83	0.84
Woodland Habitats	1991						1.00	0.78	0.78	0.67	0.74	0.72	0.79	0.73	0.75	0.69
	1993							1.00	0.80	0.74	0.74	0.67	0.74	0.73	0.75	0.64
	1994								1.00	0.77	0.82	0.72	0.69	0.75	0.75	0.67
	1995									1.00	0.78	0.63	0.65	0.69	0.72	0.61
	1996										1.00	0.78	0.75	0.77	0.74	0.70
Wetland Habitats	1991											1.00	0.83	0.82	0.89	0.85
	1993												1.00	0.77	0.82	0.83
	1994													1.00	0.83	0.77
	1995														1.00	0.84
	1996															1.00

KEY:

SMC = $a + d / a + b + c + d$ where:

- a = those species which both habitats share
- b = those species not present in X group, but present in Y group
- c = those species present in X group, but not present in Y group
- d = those species not present in X or Y group when compared to the master list

TABLE 3-12. DENSITIES* OF SELECTED BIRD SPECIES BY HABITAT

	1991		1993		1994		1995		1996	
SUMMARY	Density	Std.Dev.	Density	Std.Dev.	Density	Std.Dev.	Density	Std.Dev.	Density	Std.Dev.
Wetlands										
Red-winged Blackbird	5.50	1.1	7.21	4.1	6.31	1.4	5.50	1.8	7.24	3.1
Song Sparrow	0.30	0.4	0.16	0.1	0.31	0.2	0.84	0.3	0.38	0.3
Common Yellowthroat	0.25	0.1	0.50	0.5	0.51	0.3	1.05	0.4	0.47	0.2
European Starling	0.19	0.2	0.00	0.0	0.02	0.0	0.02	0.0	0.13	0.2
Common Snipe	0.15	0.9	0.52	0.6	0.49	0.4	0.29	0.3	0.22	0.2
Riparian Woodland Complex										
House Finch	5.10	4.2	1.31	1.9	3.36	2.3	0.96	1.3	3.28	3.3
Northern Oriole	1.47	1.4	1.26	0.7	2.30	1.0	2.19	1.2	2.54	0.8
American Goldfinch	1.41	1.4	0.60	0.8	0.78	0.6	0.64	0.2	0.61	2.3
Yellow Warbler	1.22	1.0	1.42	1.4	0.25	0.3	0.31	0.8	1.05	0.8
European Starling	1.09	2.3	0.22	0.2	1.26	3.3	1.26	1.0	2.98	2.8
Brown-headed Cowbird	0.22	0.4	0.03	0.1	0.82	0.9	0.23	0.4	0.27	0.2
Riparian Shrublands - <i>Amorpha</i>										
Vesper Sparrow	1.15	0.6	1.36	1.3	1.67	2.6	0.96	0.8	1.25	2.4
European Starling	0.62	2.7	0.00	0.0	0.43	0.9	0.59	1.9	0.19	2.0
Northern Oriole	0.53	1.0	1.16	3.4	1.80	1.0	1.84	0.7	2.00	1.4
Mourning Dove	0.50	0.2	0.43	1.3	1.53	1.5	1.28	1.5	0.63	1.7
Upland Shrublands										
Song Sparrow	1.48	2.2	0.42	0.3	2.58	0.9	2.31	1.4	2.17	0.2
Rufous-sided Towhee	1.46	0.7	1.20	0.5	2.33	0.5	2.75	2.1	3.67	1.6
Brown-headed Cowbird	0.27	0.5	0.05	0.3	0.49	0.1	0.43	0.3	0.32	0.1
Black-billed Magpie	0.22	0.1	0.22	0.3	0.97	0.6	0.87	0.6	0.34	0.2
Yellow-breasted Chat	0.32	0.4	0.13	0.3	0.13	0.3	0.17	0.2	0.39	0.2
Black-capped Chickadee	0.00	0.0	0.00	0.0	0.13	0.3	0.64	0.5	0.08	0.2
Mesic Mixed Grasslands										
Vesper Sparrow	1.39	0.9	0.55	0.0	1.14	0.7	0.80	0.4	0.62	0.5
House Finch	1.35	1.5	0.25	0.3	1.39	1.1	2.19	5.6	0.21	0.2
Western Meadowlark	0.74	0.3	0.66	0.2	1.14	0.4	1.10	0.7	0.99	0.5
Grasshopper Sparrow	0.00	0.0	0.29	0.3	0.29	0.2	0.32	0.3	0.62	0.2
Xeric Mixed Grasslands										
Vesper Sparrow	1.08	0.6	0.78	1.0	1.13	0.7	1.26	0.5	1.42	0.7
Western Meadowlark	0.63	0.1	0.54	0.2	0.67	0.3	0.64	0.1	0.96	0.2
Grasshopper Sparrow	0.36	0.4	0.52	0.2	0.72	0.3	0.53	0.4	1.56	0.5
Mourning Dove	0.02	0.0	0.04	0.1	0.04	0.0	0.09	0.2	0.06	0.1
Reclaimed Grasslands										
Western Meadowlark	1.08	0.7	0.70	0.2	1.18	0.2	0.79	0.2	0.86	0.4
Vesper Sparrow	1.06	0.3	0.86	0.6	0.95	0.2	0.95	0.5	0.94	0.5
Grasshopper Sparrow	0.25	0.1	0.85	0.4	0.66	0.3	0.71	0.4	0.96	0.5

*Note: Densities are individuals per hectare

TABLE 3-13. COMPARISON OF SPECIES PRESENT AT ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE WITH SPECIES PRESENT IN OTHER NEARBY UNDEVELOPED AREAS

Name of Site	Mammals	Birds	Reptiles	Amphibians	Life Zones	Acreage
Rocky Flats	43 species recorded	187 species recorded	8 species recorded	7 species recorded	3	6,262
Rocky Mountain National Park (1)	48 species recorded	268 species recorded	1 species recorded	5 species recorded	10	266,880
City of Boulder Open Space (2,3)	81 species recorded & expected	252 species recorded & expected	21 species recorded & expected	6 species recorded & expected	6	26,000
Jefferson County Open Space (4) (Deer Creek Park)	18 species recorded	50 species recorded	N/A (5)	N/A	5	1,721

NOTES:

- (1) Rocky Flats Environmental Technology Site is approximately 2% the size of Rocky Mountain National Park.
(2) City of Boulder Open Space species lists include both species known to occur and species expected to occur due to the presence of appropriate habitat.
(3) Rocky Flats Environmental Technology Site is approximately 24% the size of all combined City of Boulder Open Space holdings.
(4) Rocky Flats Environmental Technology Site is approximately 364% the size of Jefferson County Open Space's Deer Creek Park.
(5) N/A = No available data

SOURCES:

Listing of vertebrate animal and vascular plant species, Rocky Mountain National Park (RMNP 1990)
Unpublished species lists of birds, mammals, reptiles and amphibians, City of Boulder Open Space (CBOS 1997).
Mammals of Deer Creek Park and Deer Creek Park (DCP) Bird Species List (JCOS 1996a, b)

Appendix A

Significant Species Database Data Entry Instructions

Significant Species List

CODE ENTRY EXPLANATIONS AND INSTRUCTIONS FOR DATA ENTRY IN SIGNIFICANT-SPECIES DATABASE

Information and data may be entered from field data sheets, log books, fortuitous sighting reports, and any other reliable sources, provided minimum data are reported. Minimum data for a record to be entered into this database are: species, date, location, habitat type, number of individuals, and identity of observer.

OBSERVER (OBSERVER)

Enter initials of the primary observer (up to 3 letters). If others were present this may be noted in the MEMO field.

TYPE OF OBSERVATION (OBSTYPE)

Observation Codes

- 1 = Visual (includes observations of dead individuals)
- 2 = Trap/Net Capture
- 3 = Hand Capture
- 4 = Radio Fix
- 5 = Tracks
- 6 = Scat/Pellets
- 7 = Hair/Feathers/Other Remains
- 8 = Sound/Vocalization
- 9 = Photographic Evidence
- 10 = Nest/Eggs

DATE OF OBSERVATION (DATE)

Input observation date as mm/dd/yy (e.g., 02/04/95)

TIME OF OBSERVATION (TIME)

Enter observation time using 24-hour military time clock (e.g., 1310 for 1:10 PM)

TAXONOMIC GROUP CODE (TAXNGRUP)

Groups to be recorded include big game mammals; furbearers; small game mammals; upland game birds; waterfowl and wading birds; raptors; reptiles and amphibians; and threatened, endangered, and candidate species.

Taxonomic Group Codes

- | | |
|-------------------------------------|-------------------------------------|
| B = Big Game | L = Lepidoptera |
| C = Carnivores | P = Soil Protozoa |
| M = Other Mammals | N = Soil Nematodes |
| H = Herptiles (Reptiles/Amphibians) | S = Soil Arthropods |
| F = Fish | T = Other Terrestrial Invertebrates |
| R = Raptors | I = Aquatic Invertebrates |
| U = Upland Game Birds | Z = Zooplankton |
| W = Waterbirds | V = Vegetation |
| A = Other Avifauna | G = Algae |

NAME OF SPECIES (SPECIES)

Enter species common name from Current Approved Species Code List (CASCL) see Attachment A.

SPECIES CODE (SPECICODE)

Enter species code from CASCL see Attachment A.

OBSERVATION AREA (ADMNAREA)

Enter code for observation area relative to Rocky Flats:

Administrative Area Codes

PA = Protected Area

IA = Industrial Area

BZ = Buffer Zone

EA = Extended Observation Area - within 10 km of Rocky Flats boundary

NAME OF OBSERVATION LOCATION (SITENAME)

Enter name of transect, pond, or other physical feature at observation location, if applicable

NAME OF OPERABLE UNIT (OP_UNIT)

Enter Operable Unit name of observation area, if applicable

NAME OF NEARBY ROAD(S) (ROADNAME)

Name(s) of road(s) or other feature nearest to observation in EA, if applicable

NORTH-SOUTH ROCKY FLATS GRID CODE (RFGRIDN)

Enter alphanumeric code number (1-17) for location of observation according to Rocky Flats Grid (see Attachment B for map).

EAST-WEST ROCKY FLATS GRID CODE (RFGRIDE)

Enter alphanumeric code letter (A-U) for location of observation according to Rocky Flats Grid (see Attachment B for map).

ACTIVITY CODES (ACTIVITY1 & ACTIVITY2)

Enter primary activity code in ACTIVITY1 column and secondary activity code in ACTIVITY2 column.

Activity Codes

Fauna:

0 = Inactive/Immobile

1 = In Transit

2 = Walking/Leisurely Flight

3 = Running/Rapid Flight

4 = Fleeing

5 = Feeding/Hunting

6 = Courtship

7 = Nursing/Feeding Young

- 8 = Nesting/Incubating
- 9 = Nesting/Brooding

Activity Codes (Continued)

- 10 = Nest Building
- 11 = Fighting/Aggression
- 12 = Grooming/Preening
- 13 = Socialization/Playing
- 14 = Being Prey
- 15 = Drinking
- 16 = Swimming
- 17 = Territorial Behavior
- 18 = Dead
- 19 = Defense of Young
- 20 = Giving Birth
- 21 = Sick/Injured
- 22 = Asleep
- 23 = In Trap
- 24 - 49 (Open)

Flora:

- 50 = Died Back/Standing Dead
- 51 = Vegetative
- 52 = In Bud
- 53 = In Flower
- 54 = In Fruit/Seed

DIURNAL CODES FOR TIME OF DAY (DAY_NIGHT)

Enter diurnal code.

Diurnal Codes

- 1 = Dawn (Beginning of morning twilight to sunrise)
- 2 = Day (Sunrise to sunset)
- 3 = Dusk (Sunset to end of evening twilight)
- 4 = Night (End of evening twilight to beginning of morning twilight)

DESCRIPTION OF HABITAT AT OBSERVATION LOCATION (HABITAT, HABTYPE, HABITAT2, HABTYPE2)

Enter habitat description for HABITAT (e.g., Tall Upland Shrubland), Enter habitat code for HABTYPE. Enter secondary habitat description for HABITAT2 (e.g., Short Marsh). Enter secondary habitat code for HABTYPE2. See list below for wildlife habitat codes.

Wildlife Habitat Codes

000 Aquatic and Wetlands Habitats Group

Terrestrial Subgroup

010 Wet Meadow/Marsh Ecotone

020 Short Marsh (*Carex/Juncus*)

030 Tall Marsh (*Typha/Scirpus*)

Open Water Subgroup

040 Streams and Rivers

041 Intermittent Stream - Riffle

042 Intermittent Stream - Run

043 Intermittent Stream - Pool

044 Persistent Stream - Riffle

045 Persistent Stream - Run

046 Persistent Stream - Pool

047 Ditch (Drainage/Irrigation) - Riffle

048 Ditch (Drainage/Irrigation) - Run

049 Ditch (Drainage/Irrigation) - Pool

050 Ponds and Impoundments

• 051 Natural Pond - Littoral Zone

• 052 Natural Pond - Limnetic Zone

• 053 Natural Pond - Profundal Zone

054 Impoundment - Littoral Zone

055 Impoundment - Limnetic Zone

056 Impoundment - Profundal Zone

057 Dugout/Excavated Pond - Littoral Zone

058 Dugout/Excavated Pond - Limnetic Zone

059 Dugout/Excavated Pond - Profundal Zone

*060 Lakes and Reservoirs

• 061 Littoral Zone

• 062 Limnetic Zone

* 063 Profundal Zone

070 Springs and Seeps

071 Persistent

072 Intermittent

080 Groundwater

Emergent Subgroup

090 Mudflats

091 Stream Edge

• 092 Natural Pond Edge

093 Impoundment Edge

094 Dugout Edge

095 Ditch Edge

100 Woodlands Habitats Group

110 Riparian Woodland (*Populus, Salix* and Associated)

120 Ponderosa Woodland (*Pinus ponderosa* and Associated)

• 125 Douglas-fir Woodland (*Pseudotsuga menziesii* and Associated)

130 Tree Plantings (Ornamentals and Shelterbelts)

200 Shrublands Habitats Group

210 Riparian Shrubland (*Salix, Amorpha*, and Associated)

- 211 Riparian Shrubland - *Amorpha*
- 212 Riparian Shrubland - *Salix*
- 220 Short Upland Shrubland (*Symphoricarpos* and Associated)
- 230 Tall Upland Shrubland (*Crataegus*, *Prunus*, and Associated)
- * 240 Rabbitbrush Shrubland (*Chrysothamnus* and Associated)
- * 250 Mountain Mahogany/Bitterbrush Shrubland (*Cercocarpus*, *Purshia*, and Associated)
- 260 Savannah Shrubland (*Rhus*, *Ribes*, *Physocarpus*, and Associated)
- 300 Grasslands Habitats Group**
 - 310 Short Grassland (*Buchloe*, *Bouteloua*, and Associated)
 - 320 Mixed Grassland (General)
 - 322 Mesic Mixed Grassland (*Agropyron*, *Bouteloua*, *Poa*, and Associated)
 - 323 Xeric Mixed Grassland (*Andropogon*, *Stipa*, *Muhlenbergia*, and Associated)
 - 324 Reclaimed Mixed Grassland (Planted grass mixtures)
 - * 325 Overgrazed Pasture
- 400 Disturbance Habitat Group**
 - 410 Annual Grass/Forb (*Bromus japonicus*, *Bromus tectorium*, *Centaurea*, *Helianthus*)
 - 420 Disturbed/Barren Lands (Roads, dirt lots)
 - * 430 Cultivated Lands
- 500 Structures and Structure Associations Habitats Group**
 - 510 Transmission Lines
 - 520 Buildings/Structures
 - 530 Rock and Gravel Piles
 - 540 Roadside/Fencerow Complex
 - 550 Debris Piles
 - 560 Fence
- *600 Special Features Group**
 - * 610 Cliffs
 - * 620 Caves

* Habitat codes not found within the Rocky Flats Boundary, but found within the Extended Observation Area, see Attachment C for an expanded description of vegetative communities of major habitats .

GROUP SIZE (GRPSIZE)

Enter total number of individuals in the group.

NUMBER OF MALES (MALES)

Enter number of males.

NUMBER OF FEMALES (FEMALES)

Enter number of females.

NUMBER OF YOUNG (YOUNG)

Enter number of young.

NUMBER OF UNCLASSIFIED INDIVIDUALS (UNCLASSD)

Enter number of unclassified individuals.

MEMORANDUM (memo/MEMO)

Open this field by entering CTRL/HOME. Enter any pertinent information as to description of activity, detailed description of behavior, additional observers, specific location, or any other information. If the specimen was dead, mortality information may be entered here as well. Once a memo has been entered into the MEMO field, the display will change from "memo" to "MEMO", indicating the presence of an entry. This field has an unlimited size.

ATTACHMENT A

SPECIES CODES FOR DATA ENTRY, EXCERPT FROM CURRENT APPROVED SPECIES CODE LIST (January 1996)

AMPHIBIANS

AMBYSTOMATIDAE

<i>Ambystoma tigrinum</i>	Tiger Salamander	AMTI1
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PELOBATIDAE

<i>Scaphiopus bombifrons</i>	Plains Spadefoot	SCBO1
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BUFONIDAE

<i>Bufo cognatus</i>	Great Plains Toad	BUCO1
<i>Bufo woodhousei</i>	Woodhouse's Toad	BUWO1

HYLIDAE

<i>Pseudacris triseriatus maculata</i>	Boreal Chorus Frog	PSTR1
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RANIDAE

<i>Rana catesbeiana</i>	Bullfrog	RACA1
<i>Rana pipiens</i>	Northern Leopard Frog	RAPI1

REPTILES

CHELYDRIDAE

<i>Chrysemys picta</i>	Western Painted Turtle	CHPI1
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IGUANIDAE

<i>Phrynosoma douglassi</i>	Short-horned Lizard	PHDO1
<i>Sceloporus undulatus</i>	Eastern Fence Lizard	SCUN1

COLUBRIDAE

<i>Coluber constrictor</i>	Eastern Yellowbelly Racer	COCO1
<i>Pituophis melanoleucus</i>	Bullsnake	PIME1
<i>Thamnophis radix</i>	Western Plains Garter Snake	THRA1
<i>Thamnophis sirtalis</i>	Red-sided Garter Snake	THSI1

VIPERIDAE

Crotalus viridis

Prairie Rattlesnake

CRVI1

BIRDS

PODICIPEDIDAE

Aechmophorus occidentalis

Western Grebe

AEOC1

Podiceps nigricollis

Eared Grebe

PONI1

Podilymbus podiceps

Pied-billed Grebe

POPO1

PELECANIDAE

Pelecanus erythrorhynchos

American White Pelican

PEER1

PHALACROCORACIDAE

Phalacrocorax auritus

Double-crested Cormorant

PHAU1

ARDEIDAE

Ardea herodias

Great Blue Heron

ARHE1

Butorides striatus

Green-backed Heron

BUST1

Nycticorax nycticorax

Black-crowned Night-Heron

NYNY1

ANATIDAE

Aix sponsa

Wood Duck

AISP1

Anas acuta

Northern Pintail

ANAC1

Anas americana

American Wigeon

ANAM1

Anas clypeata

Northern Shoveler

ANCL1

Anas crecca

Green-winged Teal

ANCR1

Anas cyanoptera

Cinnamon Teal

ANCY1

Anas discors

Blue-winged Teal

ANDI1

Anas platyrhynchos

Mallard

ANPL1

Anas strepera

Gadwall

ANST1

Aythya affinis

Lesser Scaup

AYAF1

Aythya americana

Redhead

AYAM1

Aythya collaris

Ring-necked Duck

AYCO1

Aythya marila

Greater Scaup

AYMA1

Aythya valisineria

Canvasback

AYVA1

Branta canadensis

Canada Goose

BRCA1

Bucephala albeola

Bufflehead

BUAL1

Bucephala clangula

Common Goldeneye

BUCL1

Chen caerulescens

Snow Goose

CHCA1

Lophodytes cucullatus

Hooded Merganser

LOCU1

Mergus merganser

Common Merganser

MEME1

CATHARTIDAE

<i>Cathartes aura</i>	Turkey Vulture	CAAU1
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ACCIPITRIDAE

<i>Accipiter cooperii</i>	Cooper's Hawk	ACCO1
<i>Accipiter gentili</i>	Northern Goshawk	ACGE1
<i>Accipiter striatus</i>	Sharp-shinned Hawk	ACST1
<i>Aquila chrysaetos</i>	Golden Eagle	AQCH1
<i>Buteo jamaicensis</i>	Red-tailed Hawk	BUJA1
<i>Buteo lagopus</i>	Rough-legged Hawk	BULA1
<i>Buteo regalis</i>	Ferruginous Hawk	BURE1
<i>Buteo swainsoni</i>	Swainson's Hawk	BUSW1
<i>Circus cyaneus</i>	Northern Harrier	CICY1
<i>Haliaeetus leucocephalus</i>	Bald Eagle	HALE1
<i>Pandion haliaetus</i>	Osprey	PAHA1

FALCONIDAE

<i>Falco columbarius</i>	Merlin	FACO1
<i>Falco mexicanus</i>	Prairie Falcon	FAME1
<i>Falco peregrinus</i>	American Peregrine Falcon	FAPE1
<i>Falco sparverius</i>	American Kestrel	FASP1

PHASIANIDAE

<i>Meleagris gallopavo</i>	Wild Turkey	MEGA1
<i>Phasianus colchicus</i>	Ring-necked Pheasant	PHCO1

RALLIDAE

<i>Fulica americana</i>	American Coot	FUAM1
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GRUIDAE

<i>Grus canadensis</i>	Sandhill Crane	GRCA1
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SCOLOPACIDAE

<i>Limnodromus scolopaceus</i>	Long-billed Dowitcher	LISC1
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STRIGIDAE

<i>Asio flammeus</i>	Short-eared Owl	ASFL1
<i>Asio otus</i>	Long-eared Owl	ASOT1
<i>Athene cunicularia</i>	Burrowing Owl	ATCU1
<i>Bubo virginianus</i>	Great Horned Owl	BUVI1

APODIDAE

Cypseloides niger

Black Swift

CYNI1

TYRANNIDAE

Empidonax occidentalis

Cordilleran Flycatcher

EMDI1

Empidonax traillii

Willow Flycatcher

EMTR1

LANIIDAE

Lanius ludovicianus

Loggerhead Shrike

LALU1

Emberizinae

Ammodramus bairdii

Baird's Sparrow

AMBA1

MAMMALS

ORDER CHIROPTERA

VESPERTILIONIDAE

Myotis subulatus
(=*M. ciliolabrum*)

Small-footed Myotis

MYSU1

ORDER LAGOMORPHA

LEPORIDAE

Lepus californicus

Black-tailed Jackrabbit

LECA1

Lepus townsendii

White-tailed Jackrabbit

LETO1

Sylvilagus audubonii

Desert Cottontail

SYAU1

ORDER RODENTIA

SCIURIDAE

Cynomys ludovicianus

Black-tailed Prairie Dog

CYLU1

Sciurus niger

Eastern Fox Squirrel

SCNI1

CASTORIDAE

Castor canadensis

Beaver

CACA1

MURIDAE

Ondatra zibethicus

Muskrat

ONZI1

ZAPODIDAE

Zapus hudsonius preblei

Preble's Meadow Jumping Mouse

ZAHU1

ERETHIZONTIDAE

Erethizon dorsatum

Common Porcupine

ERDO1

ORDER CARNIVORA

PROCYONIDAE

Procyon lotor

Raccoon

PRLO1

MUSTELIDAE

Mephitis mephitis

Striped Skunk

MEME1

Mustela frenata

Long-tailed Weasel

MUFR1

Mustela vison

Mink

MUVI1

Taxidea taxus

American Badger

TATA1

CANIDAE

Canis latrans

Coyote

CALA1

Urocyon cinereoargenteus

Common Gray Fox

URCI1

Vulpes vulpes

Red Fox

VUVU1

FELIDAE

Felis concolor

Mountain Lion

FECO1

Lynx rufus

Bobcat

LYRU1

ORDER ARTIODACTYLA

CERVIDAE

Cervus elaphus

Elk (Wapiti)

CEEL1

Odocoileus hemionus

Mule Deer

ODHE1

Odocoileus virginianus

White-tailed Deer

ODVI1

Odocoileus hemionus x virginianus

Mule X White-tailed Deer

HEXVI

Appendix B

**Supplemental Special-Concern
Species List**

SPECIES OF PARTICULAR ECOLOGICAL CONCERN AT ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

SCIENTIFIC NAME	COMMON NAME	GLOBAL RANK	STATE RANK	FEDERAL STATUS	STATE STATUS	FED SENS
RARE AND IMPERILED MAMMALS						
<i>PEROGNATHUS FLAVESCENS RELICTUS</i>	PLAINS POCKET MOUSE SUBSP.	G5TH	SH			
<i>PEROGNATHUS FLAVUS HOPIENSIS</i>	SILKY POCKET MOUSE SUBSP.	G5T?	S1			
<i>PEROGNATHUS FLAVUS SANLUISEI</i>	SILKY POCKET MOUSE SUBSP.	G5T?	S3			
<i>REITHRODONTOMYS MEGALOTIS MEGALOTIS</i>	WESTERN HARVEST MOUSE SUBSP.	G5T?	S1			
<i>REITHRODONTOMYS MONTANUS MONTANUS</i>	PLAINS HARVEST MOUSE SUBSP.	G5TH	SH			
<i>SOREX MERRIAMII</i>	MERRIAM'S SHREW	G5	S3			
<i>TADARIDA BRASILIENSIS</i>	BRAZILIAN FREETAILED BAT	G5	S1			
<i>THOMOMYS TALPOIDES AGRESTIS</i>	NORTHERN POCKET GOPHER SUBSP.	G5T?	S3			
<i>THOMOMYS TALPOIDES MACROTIS</i>	NORTHERN POCKET GOPHER SUBSP.	G5T?	S1			
<i>ZAPUS HUDSONIUS PREBLEI</i>	PREBLE'S MEADOW JUMPING MOUSE	G5T2	S2	PE	SC	FS
RARE AND IMPERILED BIRDS						
<i>ACCIPITER COOPERII</i>	COOPER'S HAWK	G4	S3S4B,S4N			
<i>ACCIPITER GENTILIS</i>	NORTHERN GOSHAWK	G5	S3B,S4N	(C2)		FS
<i>ACCIPITER STRIATUS</i>	SHARPSHINNED HAWK	G5	S3S4B,S4N			
<i>AMMODRAMUS SAVANNARUM</i>	GRASSHOPPER SPARROW	G5	S3S4B,SZN			
<i>AQUILA CHRYSÆTOS</i>	GOLDEN EAGLE	G5	S3S4B,S4N			
<i>ARDEA HERODIAS</i>	GREAT BLUE HERON	G5	S3B,SZN			
<i>ASIO FLAMMEUS</i>	SHORTEARED OWL	G5	S2B,SZN			
<i>ASIO OTUS</i>	LONGEARED OWL	G5	S3S4B,SZN			
<i>ATHENE CUNICULARIA</i>	BURROWING OWL	G4	S3S4B	(C2)		FS
<i>AYTHYA VALISINERIA</i>	CANVASBACK	G5	S2B,SZN			
<i>BUCEPHALA ALBEOLA</i>	BUFFLEHEAD	G5	S1B,SZN			
<i>BUTEO REGALIS</i>	FERRUGINOUS HAWK	G4	S3B,S5N	(C2)	SC	FS
<i>BUTORIDES STRIATUS</i>	GREEN HERON	G5	S3B,SZN			
<i>CALCARIUS ORNATUS</i>	CHESTNUTCOLLARED LONGSPUR	G5	S2B,SZN			
<i>CATHARTES AURA</i>	TURKEY VULTURE	G5	S3B,SZN			
<i>CHEN CAERULESCENS</i>	SNOW GOOSE	G5	S3S4N			
<i>CIRCUS CYANEUS</i>	NORTHERN HARRIER	G5	S3S4B,S4N			

SPECIES OF PARTICULAR ECOLOGICAL CONCERN AT ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

SCIENTIFIC NAME	COMMON NAME	GLOBAL RANK	STATE RANK	FEDERAL STATUS	STATE STATUS	FED SENS
<i>CISTOTHORUS PALUSTRIS</i>	MARSH WREN	G5	S3B,SZN			
<i>CONTOPUS BOREALIS</i>	OLIVESIDED FLYCATCHER	G5	S3S4B	(C2)		FS
<i>CYPSELOIDES NIGER</i>	BLACK SWIFT	G4	S2B			FS
<i>DENDROICA PENNSYLVANICA</i>	CHESTNUTSIDED WARBLER	G5	S2B,SZN			
<i>DUMETELLA CAROLINENSIS</i>	GRAY CATBIRD	G5	S3S4B,SZN			
<i>FALCO COLUMBARIUS</i>	MERLIN	G5	S1B,S4N			FS
<i>FALCO MEXICANUS</i>	PRAIRIE FALCON	G4G5	S3S4B,S4N			
<i>FALCO PEREGRINUS ANATUM</i>	AMERICAN PEREGRINE FALCON	G4T4	S2B,SZN	LE	T	
<i>GRUS CANADENSIS TABIDA</i>	GREATER SANDHILL CRANE	G5T4	S2B,S4N		T	FS
<i>HALIAEETUS LEUCOCEPHALUS</i>	BALD EAGLE	G4	S1B,S3N	LT	T	
<i>LANIUS LUDOVICIANUS</i>	LOGGERHEAD SHRIKE	G4G5	S3B,SZN			FS
<i>LARUS DELAWARENSIS</i>	RINGBILLED GULL	G5	SHB,SZN			
<i>NUMENIUS AMERICANUS</i>	Longbilled Curlew	G5	S2B,SZN	(3C)	SC	FS
<i>NYCTICORAX NYCTICORAX</i>	BLACKCROWNED NIGHTHERON	G5	S3B,SZN			
<i>PANDION HALIAETUS</i>	OSPREY	G5	S1B,SZN			FS
<i>PASSERCULUS SANDWICHENSIS</i>	SAVANNAH SPARROW	G5	S3S4B,SZN			
<i>PASSERINA CYANEA</i>	INDIGO BUNTING	G5	S3S4B,SZN			
<i>PELECANUS ERYTHORHYNCHOS</i>	AMERICAN WHITE PELICAN	G3	S1B,SZN		SC	
<i>PLEGADIS CHIHI</i>	WHITEFACED IBIS	G5	S2B,SZN	(C2)		FS
<i>PODICEPS NIGRICOLLIS</i>	EARED GREBE	G5	S3S4B,SZN			
<i>PORZANA CAROLINA</i>	SORA	G5	S3S4B,SZN			
<i>SAYORNIS PHOEBE</i>	EASTERN PHOEBE	G5	S3B,SZN			
<i>SEIURUS AUROCAPILLUS</i>	OVENBIRD	G5	S2B			
<i>SETOPHAGA RUTICILLA</i>	AMERICAN REDSTART	G5	S1?B,SZN			
<i>SIALIA SIALIS</i>	EASTERN BLUEBIRD	G5	S2B,SZN			
<i>SPIZELLA PUSILLA</i>	FIELD SPARROW	G5	S1B,SZN			
<i>TYRANNUS FORFICATUS</i>	SCISSORTAILED FLYCATCHER	G5	S1B			
RARE AND IMPERILED AMPHIBIANS						
<i>RANA PIPIENS</i>	NORTHERN LEOPARD FROG	G5	S3		SC	FS

SPECIES OF PARTICULAR ECOLOGICAL CONCERN AT ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

SCIENTIFIC NAME	COMMON NAME	GLOBAL RANK	STATE RANK	FEDERAL STATUS	STATE STATUS	FED SENS
RARE AND IMPERILED INSECTS						
<i>ATRYTONE AROGOS</i>	AROGOS SKIPPER	G3G4	S2			
<i>CELASTRINA SP. 1</i>	HOP-FEEDING AZURE (or HOPS BLUE)	G2	S2			
RARE AND IMPERILED PLANTS						
<i>ARISTIDA BASIRAMEA</i>	FORKTIP THREEAWN	G5	S1			
<i>CAREX OREOCHARIS</i>	MOUNTAIN-LOVING SEDGE	G3	S1			
<i>SMILAX LASIONEURA</i>	CARRIONFLOWER	G5	S3S4			
RARE AND IMPERILED NATURAL COMMUNITIES						
<i>SCOPARIUM</i>	XERIC TALLGRASS PRAIRIES	G2	S2			
<i>ANDROPOGON GERARDII SPOROBOLUS HETEROLEPIS</i>	XERIC TALLGRASS PRAIRIES	G2	S2?			
<i>EXIGUA</i>	PLAINS COTTONWOOD RIPARIAN FORESTS	G2G3	S1			
<i>OCCIDENTALIS</i>	WOODLANDS	G2G3	S1			
<i>STIPA COMATA EAST</i>	GREAT PLAINS MIXED GRASS PRAIRIES	G2	S2			
<i>STIPA NEOMEXICANA</i>	GREAT PLAINS MIXED GRASS PRAIRIES	G2	S2			

Adapted from Colorado Natural Heritage Program 1996 Rare and Imperiled Species lists.

SPECIES OF PARTICULAR ECOLOGICAL CONCERN AT ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

Definition of Natural Heritage Global Rarity Ranks:

NOTE: These ranks should not be interpreted as legal designations.

Global Rank (G): Based on the range-wide status of the species.

- G1 Critically imperiled globally because of extreme rarity (5 or fewer occurrences, or very few remaining individuals), or because of some factor of its biology making it especially vulnerable to extinction. (Critically endangered throughout its range).
- G2 Imperiled globally because of its rarity (6 to 20 occurrences), or because of other factors demonstrably making it very vulnerable to extinction throughout its range. (Endangered throughout its range).
- G3 Very rare or local throughout its range or found locally in a restricted range (21 to 100 occurrences). (Threatened throughout its range).
- G4 Apparently secure globally, though it might be quite rare in parts of its range, especially the periphery.
- G5 Demonstrably secure globally, though it may be quite rare in parts of its range, especially the periphery.
- GX Presumed extinct.
- G#? Indicates uncertainty about an assigned global rank.
- GU Unable to assign rank due to lack of available information.
- GQ Indicates uncertainty about taxonomic status.
- G#T# Trinomial rank (T) is used for subspecies or varieties. These taxa are ranked on the same criteria as G1-G5.

Definition of Natural Heritage State Rarity Ranks:

NOTE: These ranks should not be interpreted as legal designations.

State rank (S): Based on the status of a species in an individual state (Colorado).

- S1 Critically imperiled in state because of extreme rarity (5 or fewer occurrences, or very few remaining individuals), or because of some factor of its biology making it especially vulnerable to extinction. (Critically endangered in state).

SPECIES OF PARTICULAR ECOLOGICAL CONCERN AT ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

- S2 Imperiled in state because of its rarity (6 to 20 occurrences), or because of other factors demonstrably making it very vulnerable to extinction throughout its range. (Endangered or threatened in state).
- S3 Rare in state (21 to 100 occurrences).
- S#B Refers to breeding season imperilment of elements that are not permanent residents.
- S#N Refers to non-breeding season imperilment of elements that are not permanent residents. Where no consistent location can be discerned for migrants or non-breeding populations, a rank of SZN is used.
- SZ Migrant whose occurrences are too irregular, transitory, and/or dispersed to be reliably identified, mapped, or protected.
- SH Historically known from the state, but not verified for an extended period, usually > 15 years; this rank is used primarily when inventory has been attempted recently.
- SX Presumed extirpated from state.
- S#? Indicates uncertainty about an assigned state rank.
- SU Unable to assign rarity rank, often because of low search effort or cryptic nature of the element.
- SA Accidental in state.
- SR Reported to occur in the state, but unverified.
- S? Unranked; some evidence that species may be imperiled, but awaiting formal rarity ranking.

Federal Status

U.S. Fish and Wildlife Service

- LE Endangered; taxa formally listed as endangered.
- LT Threatened; taxa formally listed as threatened.
- PE/PT Proposed for listing as E or T; taxa formally proposed for listing as threatened or endangered.

SPECIES OF PARTICULAR ECOLOGICAL CONCERN AT ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

C Candidate for listing as E or T; taxa under study for listing as threatened or endangered.

(C2) Formerly a category 2 (C2) candidate for listing as threatened or endangered.

(3C) Former category 3 (3C); taxa that have proven to be more abundant or widespread than was previously believed.

U.S. Forest Service

FS Sensitive: those plant and animal species identified by the Regional Forester for which population viability is a concern.

State Status:

Colorado Division of Wildlife

E Endangered

T Threatened

SC Special Concern

Appendix C

Significant Species 1996 Data Summary

1996 SIGNIFICANT-SPECIES DATABASE

DATE	TAXN	SPECIES	SPEC CODE	ADMN AREA	SITE NAME	OP	ROADNAME	RF GRIDN	RF GRIDE	ACTIV TY1	ACTIV TY2	DAY NGHT	HABITAT	HAB TYPE	HABITAT2	HAB TYPE2	GRUP SIZE	MALES	FEMALES	YOUNG	UNC LASSD
1/10/96	A	LOGGERHEAD SHRIKE	LALU1	BZ	BS03B			5	R	5		2	RIPARIAN WOODLAND	110	RIPARIAN SHRUBLAND-SALIX	212	1				1
1/10/96	A	LOGGERHEAD SHRIKE	LALU1	BZ	RA04B			3	S	5		2	RECLAIMED GRASSLAND	324			1				1
2/13/96	A	LOGGERHEAD SHRIKE	LALU1	BZ	BW01R			15	I	5		2	RIPARIAN WOODLAND	110	RIPARIAN SHRUBLAND-SALIX	212	1				1
2/15/96	A	LOGGERHEAD SHRIKE	LALU1	BZ	RW01B			13	T	0		2	RIPARIAN WOODLAND	110			1				1
2/28/96	A	LOGGERHEAD SHRIKE	LALU1	BZ	RW01A			7	L	0		2	RIPARIAN WOODLAND	110	RIPARIAN SHRUBLAND-SALIX	212	1				1
3/29/96	A	LOGGERHEAD SHRIKE	LALU1	BZ	RW03B			7	K	1		2	RECLAIMED GRASSLAND	324			1				1
3/31/96	A	LOGGERHEAD SHRIKE	LALU1	BZ	BW01B			14	R			2	RIPARIAN WOODLAND	110	RIPARIAN SHRUBLAND-SALIX	212	1				1
4/30/96	A	LOGGERHEAD SHRIKE	LALU1	BZ	RA02A			6	I	5		2	SHORT MARSH	20			1				1
5/1/96	A	LOGGERHEAD SHRIKE	LALU1	BZ				6	H	1		2	XERIC MIXED GRASSLAND	323	PONDEROSA WOODLAND	120	1				1
8/22/96	A	LOGGERHEAD SHRIKE	LALU1	BZ	BG02A			7	J	1		2	MESIC MIXED GRASSLAND	322			1				1
5/28/96	B	ELK	CEEL1	BZ				17	L	0		2	MESIC MIXED GRASSLAND	322			1				1
11/22/96	B	ELK	CEEL1	BZ	RA04B			2	T	1		2	TALL MARSH	30			1	1			
2/29/96	B	MULE X WHITE-TAILED DEER	HEXV1	BZ	MCKAY DT			15	P	1		2	RECLAIMED GRASSLAND	324	MESIC MIXED GRASSLAND	322	1	1			
6/26/96	B	MULE X WHITE-TAILED DEER	HEXV1	BZ	RS02B			16	L	0		2	TALL UPLAND SHRUBLAND	230			1	1			
11/20/96	B	MULE X WHITE-TAILED DEER	HEXV1	BZ	RS01B			14	F	1		2	TALL UPLAND SHRUBLAND	230			1	1			
1/10/96	B	MULE DEER	ODHE1	BZ	BS03B			6	R	1		2	RIPARIAN SHRUBLAND-SALIX	212			2	2			
1/10/96	B	MULE DEER	ODHE1	BZ	BS03B			6	O	1	5	2	MESIC MIXED GRASSLAND	322			19	4	10	5	
1/10/96	B	MULE DEER	ODHE1	BZ	BG02B			8	D	0		2	XERIC MIXED GRASSLAND	323			1		1		
1/10/96	B	MULE DEER	ODHE1	BZ	BG02B			9	E	5		2	XERIC MIXED GRASSLAND	323			7		5	2	
1/10/96	B	MULE DEER	ODHE1	BZ	BG02B			10	D	5		2	XERIC MIXED GRASSLAND	323			7	1	3	3	
1/15/96	B	MULE DEER	ODHE1	BZ				14	G	5		2	TALL UPLAND SHRUBLAND	230			1				1
1/15/96	B	MULE DEER	ODHE1	BZ				15	G	0		2	TALL UPLAND SHRUBLAND	230			22				22
1/15/96	B	MULE DEER	ODHE1	BZ				15	G	0		2	MESIC MIXED GRASSLAND	322			12				12
1/15/96	B	MULE DEER	ODHE1	BZ				15	I	5		2	MESIC MIXED GRASSLAND	322			1				1
1/15/96	B	MULE DEER	ODHE1	BZ				10	S	0		2	MESIC MIXED GRASSLAND	322			11	4			7
1/15/96	B	MULE DEER	ODHE1	BZ				14	G	1		2	XERIC MIXED GRASSLAND	323			1				1
1/15/96	B	MULE DEER	ODHE1	BZ				12	H	5		2	XERIC MIXED GRASSLAND	323			16	2	10	4	
1/17/96	B	MULE DEER	ODHE1	BZ				15	O	1		2	MESIC MIXED GRASSLAND	322	RECLAIMED GRASSLAND	324	4		3	1	
1/18/96	B	MULE DEER	ODHE1	BZ				15	H	5		2	TALL UPLAND SHRUBLAND	230			5	4	1		
1/18/96	B	MULE DEER	ODHE1	BZ				14	E	0		2	TALL UPLAND SHRUBLAND	230			8		5	3	
1/18/96	B	MULE DEER	ODHE1	BZ				15	J	1	5	2	TALL UPLAND SHRUBLAND	230			11	2	5	4	
1/18/96	B	MULE DEER	ODHE1	BZ				16	L	0		2	TALL UPLAND SHRUBLAND	230			12	1	8	3	
1/18/96	B	MULE DEER	ODHE1	BZ				5	K	5	0	2	MESIC MIXED GRASSLAND	322			18	3	12	3	
1/18/96	B	MULE DEER	ODHE1	BZ				14	O	5		2	MESIC MIXED GRASSLAND	322			8	8			
1/18/96	B	MULE DEER	ODHE1	BZ				11	P	0		2	MESIC MIXED GRASSLAND	322			10	1		6	3
1/18/96	B	MULE DEER	ODHE1	BZ				9	R	0	5	2	MESIC MIXED GRASSLAND	322			12	9	3		
1/18/96	B	MULE DEER	ODHE1	BZ				9	R	0	5	2	MESIC MIXED GRASSLAND	322			5	5			
1/18/96	B	MULE DEER	ODHE1	BZ				5	H	5	1	2	XERIC MIXED GRASSLAND	323			11	2	6	3	
1/18/96	B	MULE DEER	ODHE1	BZ				8	L	5		2	RECLAIMED GRASSLAND	324			1		1		
1/18/96	B	MULE DEER	ODHE1	BZ				15	G	1		2	TALL UPLAND SHRUBLAND	230	MESIC MIXED GRASSLAND	322	18				18
1/19/96	B	MULE DEER	ODHE1	BZ				13	F	1		2	TALL UPLAND SHRUBLAND	230			8				8
1/29/96	B	MULE DEER	ODHE1	BZ	RW03B			7	I	5		2	MESIC MIXED GRASSLAND	322	RIPARIAN WOODLAND	110	21	2	16	3	
1/30/96	B	MULE DEER	ODHE1	BZ	RG02B			16	N	5		2	XERIC MIXED GRASSLAND	323			20	8	11	1	
1/30/96	B	MULE DEER	ODHE1	BZ	RG02B			16	N	0		2	XERIC MIXED GRASSLAND	323			1	1			
1/31/96	B	MULE DEER	ODHE1	BZ	ARNICA			6	M	0		2	MESIC MIXED GRASSLAND	322			2	2			
1/31/96	B	MULE DEER	ODHE1	BZ				8	S	5	0	2	MESIC MIXED GRASSLAND	322			10	3			7
1/31/96	B	MULE DEER	ODHE1	BZ	RA02B	OU6		10	O	5		2	MESIC MIXED GRASSLAND	322			14		10	4	
1/31/96	B	MULE DEER	ODHE1	BZ	RA02B	OU6		10	O	5		2	MESIC MIXED GRASSLAND	322			1	1			
1/31/96	B	MULE DEER	ODHE1	BZ	RA02B	OU6		11	P	0		2	MESIC MIXED GRASSLAND	322			1	1			
1/31/96	B	MULE DEER	ODHE1	BZ	RW01B			14	Q	0		2	MESIC MIXED GRASSLAND	322			10	2	7	1	
1/31/96	B	MULE DEER	ODHE1	BZ		OU2		8	N	0		2	MESIC MIXED GRASSLAND	322			7				7
1/31/96	B	MULE DEER	ODHE1	BZ				6	M	1		2	MESIC MIXED GRASSLAND	322			3	3			
1/31/96	B	MULE DEER	ODHE1	BZ	RS01B			15	F	5		2	XERIC MIXED GRASSLAND	323			16	8			1
1/31/96	B	MULE DEER	ODHE1	BZ	RG01A			8	M	5		2	RECLAIMED GRASSLAND	324			10		8	2	
2/8/96	B	MULE DEER	ODHE1	BZ	BD03B			5	O			2	RIPARIAN SHRUBLAND-AMORPHA	211	RECLAIMED GRASSLAND	324	4	1	3		
2/8/96	B	MULE DEER	ODHE1	BZ				6	P	5		2	MESIC MIXED GRASSLAND	322			3	3			
2/13/96	B	MULE DEER	ODHE1	BZ	BW01R			16	K	1	5	2	MESIC MIXED GRASSLAND	322	TALL UPLAND SHRUBLAND	230	13	4	7	2	
2/13/96	B	MULE DEER	ODHE1	BZ	DRY CK.			15	Q	5		2	MESIC MIXED GRASSLAND	322			13	4	3	1	5

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DATE	TAXN	SPECIES	SPEC	ADMN	SITE	OP	ROADNAME	RF	RF	ACTV	ACTV	DAY	HABITAT	HAB	HABITAT2	HAB	GRUP	MALES	FEMALES	YOUNG	UNC
	GRUP		CODE	AREA	NAME	UNIT		GRIDN	GRIDE	TY1	TY2	NGHT		TYPE		TYPE2	SIZE				LASSD
2/13/96	B	MULE DEER	ODHE1	BZ				16	N	0		2	XERIC MIXED GRASSLAND	323			5	5			
2/14/96	B	MULE DEER	ODHE1	BZ	BA01B			5	J	1	5	2	XERIC MIXED GRASSLAND	323			18	4			14
2/14/96	B	MULE DEER	ODHE1	BZ	BS02B			8	D	5	1	2	XERIC MIXED GRASSLAND	323			14	2	10	2	
2/15/96	B	MULE DEER	ODHE1	BZ	DRY CK.			14	R	0		2	MESIC MIXED GRASSLAND	322			7	7			
2/16/96	B	MULE DEER	ODHE1	BZ	BX01R			13	F			2	XERIC MIXED GRASSLAND	323			15	4	11		
2/16/96	B	MULE DEER	ODHE1	BZ	BS02B			14	G			2	WET MEADOW	10			12				12
2/22/96	B	MULE DEER	ODHE1	BZ	RW01A			7	P	0		2	RIPARIAN SHRUBLAND-SALIX	212			4	2	2		
2/28/96	B	MULE DEER	ODHE1	BZ	RS01B			14	E	0		2	TALL UPLAND SHRUBLAND	230			8				8
2/28/96	B	MULE DEER	ODHE1	BZ	HIDEOUT			5	K	5		2	MESIC MIXED GRASSLAND	322			23				23
2/28/96	B	MULE DEER	ODHE1	BZ	RW01A			7	O	0		2	MESIC MIXED GRASSLAND	322			17				17
2/28/96	B	MULE DEER	ODHE1	BZ	RG02A			7	H	5		2	MESIC MIXED GRASSLAND	322			14	1			13
2/28/96	B	MULE DEER	ODHE1	BZ	RG01A	OU1		8	M	5	0	2	RECLAIMED GRASSLAND	324			10				10
2/28/96	B	MULE DEER	ODHE1	BZ	MCKAY DT			15	P	1		2	RECLAIMED GRASSLAND	324	MESIC MIXED GRASSLAND	322	12				12
2/29/96	B	MULE DEER	ODHE1	BZ	POND A-2	OU6		12	O	15		2	IMPOUNDMENT MUDFLAT	93	IMPOUNDMENT	54	10				10
2/29/96	B	MULE DEER	ODHE1	BZ	RA02B			12	N	5		2	MESIC MIXED GRASSLAND	322			16				16
2/29/96	B	MULE DEER	ODHE1	BZ	RA02B			10	O	0		2	MESIC MIXED GRASSLAND	322			5				5
2/29/96	B	MULE DEER	ODHE1	BZ				15	M	1	5	2	XERIC MIXED GRASSLAND	323			8	4	2	2	
2/29/96	B	MULE DEER	ODHE1	BZ	SID			8	O	1		2	RECLAIMED GRASSLAND	324			2	2			
2/29/96	B	MULE DEER	ODHE1	BZ				11	J			2	MESIC MIXED GRASSLAND	322			5				5
3/27/96	B	MULE DEER	ODHE1	BZ	RS02B			16	K	5		2	TALL UPLAND SHRUBLAND	230			15				15
3/29/96	B	MULE DEER	ODHE1	BZ	DRY CK.			15	O	5		2	MESIC MIXED GRASSLAND	322			12				12
3/29/96	B	MULE DEER	ODHE1	BZ		OU2		8	N	0		2	MESIC MIXED GRASSLAND	322			10		10		
3/29/96	B	MULE DEER	ODHE1	BZ				11	E	0		2	MESIC MIXED GRASSLAND	322			7				7
3/29/96	B	MULE DEER	ODHE1	BZ	RW01B			15	T	5		2	MESIC MIXED GRASSLAND	322			15	2			13
3/29/96	B	MULE DEER	ODHE1	BZ				8	F	0		2	XERIC MIXED GRASSLAND	323			10				10
3/29/96	B	MULE DEER	ODHE1	BZ	RG02B			16	N	5		2	XERIC MIXED GRASSLAND	323			21				21
3/29/96	B	MULE DEER	ODHE1	BZ	RG03B			3	L	0		2	MESIC MIXED GRASSLAND	322			18				18
3/31/96	B	MULE DEER	ODHE1	BZ				7	R	1		2	MESIC MIXED GRASSLAND	322			3		3		
3/31/96	B	MULE DEER	ODHE1	BZ	LINDSAY			13	G			2	MESIC MIXED GRASSLAND	322			13				13
4/17/96	B	MULE DEER	ODHE1	BZ	BS02B			15	J			2	MESIC MIXED GRASSLAND	322			20				20
4/18/96	B	MULE DEER	ODHE1	BZ	LOBELIA			16	K	1		2	MESIC MIXED GRASSLAND	322	TALL UPLAND SHRUBLAND	230	11				11
4/26/96	B	MULE DEER	ODHE1	BZ	RS02B			17	N	50		2	TALL UPLAND SHRUBLAND	230	SHORT MARSH	20	7	7			
4/30/96	B	MULE DEER	ODHE1	BZ				13	E	0		2	TALL UPLAND SHRUBLAND	230	MESIC MIXED GRASSLAND	322	24				24
4/30/96	B	MULE DEER	ODHE1	BZ	RS02B			16	L	5		2	TALL UPLAND SHRUBLAND	230			1				1
4/30/96	B	MULE DEER	ODHE1	BZ	ELK RDG			14	P	0		2	MESIC MIXED GRASSLAND	322			14				14
4/30/96	B	MULE DEER	ODHE1	BZ				8	C	5	1	2	XERIC MIXED GRASSLAND	323			4				4
5/1/96	B	MULE DEER	ODHE1	BZ				5	K	5	0	2	MESIC MIXED GRASSLAND	322			24				24
5/9/96	B	MULE DEER	ODHE1	BZ				12	R	11		3	MESIC MIXED GRASSLAND	322			8				8
5/9/96	B	MULE DEER	ODHE1	BZ				14	P	0		2	MESIC MIXED GRASSLAND	322			5				5
5/13/96	B	MULE DEER	ODHE1	BZ				13	N	0		2	MESIC MIXED GRASSLAND	322			2				2
5/13/96	B	MULE DEER	ODHE1	BZ				12	E	0		2	MESIC MIXED GRASSLAND	322			5		5		
5/13/96	B	MULE DEER	ODHE1	BZ	LINDSAY			13	G	0	5	2	MESIC MIXED GRASSLAND	322			7		7		
5/13/96	B	MULE DEER	ODHE1	BZ				6	J	0	5	2	MESIC MIXED GRASSLAND	322			11				11
5/13/96	B	MULE DEER	ODHE1	BZ				8	F	5		2	XERIC MIXED GRASSLAND	323			3				3
5/13/96	B	MULE DEER	ODHE1	BZ	LANDFILL	OU7		13	K	1	5	2	XERIC MIXED GRASSLAND	323			11	1			10
5/13/96	B	MULE DEER	ODHE1	BZ				9	D	0		2	XERIC MIXED GRASSLAND	323			3				3
5/13/96	B	MULE DEER	ODHE1	BZ				15	L	5		2	XERIC MIXED GRASSLAND	323			6				6
5/14/96	B	MULE DEER	ODHE1	BZ	RA02A			6	I	0		2	TREE PLANTINGS	130	SHORT MARSH	20	10	1	9		
5/14/96	B	MULE DEER	ODHE1	BZ	RW03B			7	I	5		2	RIPARIAN WOODLAND	110	RIPARIAN SHRUBLAND-SALIX	212	2		2		
5/14/96	B	MULE DEER	ODHE1	BZ	RW03B			7	I	0		2	RIPARIAN WOODLAND	110	RIPARIAN SHRUBLAND-SALIX	212	8	2	6		
5/14/96	B	MULE DEER	ODHE1	BZ	RA02A			7	I	5		2	SHORT MARSH	20			6	3	3		
5/14/96	B	MULE DEER	ODHE1	BZ				5	I	0		2	SHORT MARSH	20			3				3
5/16/96	B	MULE DEER	ODHE1	BZ				15	J	1	5	2	XERIC MIXED GRASSLAND	323	TALL UPLAND SHRUBLAND	230	9	2	7		
5/21/96	B	MULE DEER	ODHE1	BZ				14	G	1	5	2	MESIC MIXED GRASSLAND	322	XERIC MIXED GRASSLAND	323	8	1	7		
5/21/96	B	MULE DEER	ODHE1	BZ	BS01B			15	I	1		2	TALL UPLAND SHRUBLAND	230			2	2			
5/21/96	B	MULE DEER	ODHE1	BZ	BS01B			15	I	1	5	2	TALL UPLAND SHRUBLAND	230			4	1	3		
5/21/96	B	MULE DEER	ODHE1	BZ				14	I	1		2	TALL UPLAND SHRUBLAND	230			6	1	5		
5/21/96	B	MULE DEER	ODHE1	BZ				12	E	5		2	MESIC MIXED GRASSLAND	322			7		7		

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DATE	TAXN	SPECIES	SPEC	ADMN	SITE	OP	ROADNAME	RF	RF	ACTIV	ACTIV	DAY	HABITAT	HAB	HABITAT2	HAB	GRUP	MALES	FEMALES	YOUNG	UNC
	GRUP		CODE	AREA	NAME	UNIT		GRIDN	GRIDE	TY1	TY2	NGHT		TYPE		TYPE2	SIZE				LASSD
5/21/96	B	MULE DEER	ODHE1	BZ				15	K	5		2	XERIC MIXED GRASSLAND	323			4		4		
5/28/96	B	MULE DEER	ODHE1	BZ				3	K	0		2	MESIC MIXED GRASSLAND	322			16	6	10		
5/29/96	B	MULE DEER	ODHE1	BZ	RS01B			15	G	0		2	TALL UPLAND SHRUBLAND	230			1	1			
5/29/96	B	MULE DEER	ODHE1	BZ	RS01B			14	F	0		2	TALL UPLAND SHRUBLAND	230			4	1	3		
5/29/96	B	MULE DEER	ODHE1	BZ	RS01B			13	E	1	15	2	TALL UPLAND SHRUBLAND	230			2		1	1	
5/30/96	B	MULE DEER	ODHE1	BZ	RW01A			6	L	0		2	RIPARIAN WOODLAND	110	RIPARIAN SHRUBLAND-SALIX	212	1	1			
5/30/96	B	MULE DEER	ODHE1	BZ	RS02B			16	K	5		2	TALL UPLAND SHRUBLAND	230			1		1		
6/3/96	B	MULE DEER	ODHE1	BZ				12	N	1	5	2	RIPARIAN SHRUBLAND-SALIX	212			1		1		
6/3/96	B	MULE DEER	ODHE1	BZ	BS01B			14	F	0	7	2	TALL UPLAND SHRUBLAND	230			5		3	2	
6/3/96	B	MULE DEER	ODHE1	BZ	BS01B			14	G	1		2	TALL UPLAND SHRUBLAND	230			7	1	3	3	
6/3/96	B	MULE DEER	ODHE1	BZ	BS01B			13	F	1		2	TALL UPLAND SHRUBLAND	230			3		1	2	
6/3/96	B	MULE DEER	ODHE1	BZ				17	M	5	0	2	MESIC MIXED GRASSLAND	322			9	9			
6/3/96	B	MULE DEER	ODHE1	BZ				14	F	1		2	XERIC MIXED GRASSLAND	323			3		1	2	
6/4/96	B	MULE DEER	ODHE1	BZ	BW01A			7	L	0		2	RIPARIAN SHRUBLAND-SALIX	212			3		3		
6/4/96	B	MULE DEER	ODHE1	BZ				8	O	0		2	XERIC MIXED GRASSLAND	323			4	1	3		
6/5/96	B	MULE DEER	ODHE1	BZ				5	Q	1	5	2	RECLAIMED GRASSLAND	324	RIPARIAN SHRUBLAND-AMORPHA	211	4		4		
6/5/96	B	MULE DEER	ODHE1	BZ				13	R	5		2	MESIC MIXED GRASSLAND	322			3		3		
6/5/96	B	MULE DEER	ODHE1	BZ				4	I	5		2	XERIC MIXED GRASSLAND	323			6	1	5		
6/10/96	B	MULE DEER	ODHE1	BZ	BR02A	OU1		8	L	5		2	RECLAIMED GRASSLAND	324			2		1	1	
6/11/96	B	MULE DEER	ODHE1	BZ	BS02B			15	J	0		2	TALL UPLAND SHRUBLAND	230			2	1	1		
6/11/96	B	MULE DEER	ODHE1	BZ	BS02B			14	I	1	5	2	TALL UPLAND SHRUBLAND	230			3		2	1	
6/11/96	B	MULE DEER	ODHE1	BZ	BS02B			13	H	1	5	2	TALL UPLAND SHRUBLAND	230			2		1	1	
6/11/96	B	MULE DEER	ODHE1	BZ	BS01B			14	G	0		2	TALL UPLAND SHRUBLAND	230			2		1	1	
6/11/96	B	MULE DEER	ODHE1	BZ	BS01B			14	G	1		2	TALL UPLAND SHRUBLAND	230			2		1	1	
6/11/96	B	MULE DEER	ODHE1	BZ	BS01B			14	F	1	5	2	TALL UPLAND SHRUBLAND	230			2		2		
6/11/96	B	MULE DEER	ODHE1	BZ				13	F	0		2	TALL UPLAND SHRUBLAND	230			1		1		
6/11/96	B	MULE DEER	ODHE1	BZ	BS01B			13	F	0		2	TALL UPLAND SHRUBLAND	230			2		2		
6/12/96	B	MULE DEER	ODHE1	BZ	BW01B			13	R	0		2	RIPARIAN WOODLAND	110			1	1			
6/12/96	B	MULE DEER	ODHE1	BZ				17	M	0		2	MESIC MIXED GRASSLAND	322			2	2			
6/12/96	B	MULE DEER	ODHE1	BZ				15	M	5		2	XERIC MIXED GRASSLAND	323			5	5			
6/18/96	B	MULE DEER	ODHE1	BZ	BA01B			6	K	1		2	MESIC MIXED GRASSLAND	322			3	1	2		
6/18/96	B	MULE DEER	ODHE1	BZ	BA01B			6	K	1		2	MESIC MIXED GRASSLAND	322			1		1		
6/18/96	B	MULE DEER	ODHE1	BZ	HIDEOUT			5	J	5		2	MESIC MIXED GRASSLAND	322			1		1		
6/19/96	B	MULE DEER	ODHE1	BZ	BS03B			4	S	0		2	RIPARIAN WOODLAND	110			2	2			
6/19/96	B	MULE DEER	ODHE1	BZ	BS03B			5	Q	0		2	RIPARIAN SHRUBLAND-SALIX	212			1		1		
6/19/96	B	MULE DEER	ODHE1	BZ				5	L	5	1	2	MESIC MIXED GRASSLAND	322			3				3
6/19/96	B	MULE DEER	ODHE1	BZ	BORROW			6	O	0		2	MESIC MIXED GRASSLAND	322			2	2			
6/20/96	B	MULE DEER	ODHE1	BZ	B81 HILL	OU1		8	L	5		2	RECLAIMED GRASSLAND	324			1		1		
6/25/96	B	MULE DEER	ODHE1	BZ	LOBELIA			14	J	1		2	TALL UPLAND SHRUBLAND	230	MESIC MIXED GRASSLAND	322	2		2		
6/25/96	B	MULE DEER	ODHE1	BZ	BS01B			14	G	5	0	2	TALL UPLAND SHRUBLAND	230	MESIC MIXED GRASSLAND	322	5		5		
6/25/96	B	MULE DEER	ODHE1	BZ	RS03B			5	Q	0		2	RIPARIAN SHRUBLAND-SALIX	212			1	1			
6/25/96	B	MULE DEER	ODHE1	BZ	BS01B			15	G	5		2	TALL UPLAND SHRUBLAND	230			2		2		
6/25/96	B	MULE DEER	ODHE1	BZ				16	L	1		2	MESIC MIXED GRASSLAND	322			2	2			
6/25/96	B	MULE DEER	ODHE1	BZ	BX02R			15	I	1	5	2	XERIC MIXED GRASSLAND	323			1	1			
6/26/96	B	MULE DEER	ODHE1	BZ				15	L	5		2	MESIC MIXED GRASSLAND	322	XERIC MIXED GRASSLAND	323	2	2			
6/26/96	B	MULE DEER	ODHE1	BZ	RA02A			7	I	1		2	SHORT MARSH	20			3	2	1		
6/26/96	B	MULE DEER	ODHE1	BZ	RW01B			13	Q	5		2	RIPARIAN WOODLAND	110			2	2			
6/26/96	B	MULE DEER	ODHE1	BZ	RW03B			7	I	0		2	RIPARIAN WOODLAND	110			2		2		
6/26/96	B	MULE DEER	ODHE1	BZ	RW03B			7	H	5		2	RIPARIAN WOODLAND	110			1		1		
6/26/96	B	MULE DEER	ODHE1	BZ	RW03B			7	G	0		2	RIPARIAN WOODLAND	110			1		1		
6/26/96	B	MULE DEER	ODHE1	BZ	RS02B			15	K	0		2	TALL UPLAND SHRUBLAND	230			3	3			
6/27/96	B	MULE DEER	ODHE1	BZ	RA02A			5	I	0		2	WET MEADOW	10			2	2			
6/27/96	B	MULE DEER	ODHE1	BZ	RA02A			5	I	0		2	SHORT MARSH	20			1				1
6/27/96	B	MULE DEER	ODHE1	BZ	RA02A			5	I	0		2	TALL MARSH	30			1		1		
6/27/96	B	MULE DEER	ODHE1	BZ	RW02B			4	L	0		2	RIPARIAN WOODLAND	110			2		1	1	
6/27/96	B	MULE DEER	ODHE1	BZ	RW01A			7	L	0		2	RIPARIAN WOODLAND	110			1		1		
6/27/96	B	MULE DEER	ODHE1	BZ	RG03B			2	K	0		2	SHORT UPLAND SHRUBLAND	220			3	3			
6/27/96	B	MULE DEER	ODHE1	BZ	RG03B			3	N	1		2	MESIC MIXED GRASSLAND	322			1	1			

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DATE	TAXN	SPECIES	SPEC	ADMN	SITE	OP	ROADNAME	RF	RF	ACTV	ACTV	DAY	HABITAT	HAB	HABITAT2	HAB	GRUP	MALES	FEMALES	YOUNG	UNC
	GRUP		CODE	AREA	NAME	UNIT		GRIDN	GRIDE	TY1	TY2	NGHT		TYPE		TYPE2	SIZE				LASSO
6/27/96	B	MULE DEER	ODHE1	BZ	RG03B			3	O	5		2	MESIC MIXED GRASSLAND	322			1		1		
6/27/96	B	MULE DEER	ODHE1	BZ	ARNICA			6	M	1	0	2	MESIC MIXED GRASSLAND	322			2		1	1	
7/16/96	B	MULE DEER	ODHE1	BZ	BS01B			15	G	1		2	XERIC MIXED GRASSLAND	323	TALL UPLAND SHRUBLAND	230	4	2	2		
7/16/96	B	MULE DEER	ODHE1	BZ	BS02B			13	H	0		2	TALL UPLAND SHRUBLAND	230			1	1			
7/16/96	B	MULE DEER	ODHE1	BZ	BS01B			15	H	1	5	2	TALL UPLAND SHRUBLAND	230			1	1			
7/16/96	B	MULE DEER	ODHE1	BZ	BS01B			13	F	1	7	2	TALL UPLAND SHRUBLAND	230			2		1	1	
7/16/96	B	MULE DEER	ODHE1	BZ	RS02B			17	M	0		2	TALL MARSH	30			1	1			
7/17/96	B	MULE DEER	ODHE1	BZ	RS01B			13	F	0		2	TALL UPLAND SHRUBLAND	230			5	1	4		
7/17/96	B	MULE DEER	ODHE1	BZ	RS01B			13	F	5		2	TALL UPLAND SHRUBLAND	230			5		5		
7/17/96	B	MULE DEER	ODHE1	BZ	RS02B			16	L	0		2	TALL UPLAND SHRUBLAND	230			1	1			
7/17/96	B	MULE DEER	ODHE1	BZ	RS02B			17	M	0		2	TALL UPLAND SHRUBLAND	230			1	1			
7/17/96	B	MULE DEER	ODHE1	BZ	RW02B			5	P	0		2	RIPARIAN WOODLAND	110			1	1			
7/22/96	B	MULE DEER	ODHE1	BZ	RW02B			5	O	0		2	RIPARIAN SHRUBLAND-SALIX	212			1		1		
7/22/96	B	MULE DEER	ODHE1	BZ	RA02B	OU6		12	O	5		2	RIPARIAN SHRUBLAND-SALIX	212			1		1		
7/22/96	B	MULE DEER	ODHE1	BZ	RA02B	OU6		11	O	5		2	MESIC MIXED GRASSLAND	322			2		1	1	
7/22/96	B	MULE DEER	ODHE1	BZ	RA03B			7	K	0		2	WET MEADOW	10			1		1		
7/24/96	B	MULE DEER	ODHE1	BZ	RA03B			5	I	0		2	TALL MARSH	30			2	2			
7/24/96	B	MULE DEER	ODHE1	BZ	POND D-2			2	U	1		2	IMPOUNDMENT MUDFLAT	93			2				2
7/25/96	B	MULE DEER	ODHE1	BZ	RW01A			7	K	0		2	RIPARIAN SHRUBLAND-SALIX	212			1				
7/25/96	B	MULE DEER	ODHE1	BZ				6	H	5		2	MESIC MIXED GRASSLAND	322	SHORT MARSH	20	3		3		
7/29/96	B	MULE DEER	ODHE1	BZ				2	J	5		2	MESIC MIXED GRASSLAND	322			3	3			
7/29/96	B	MULE DEER	ODHE1	BZ	881 HILL	OU1		8	L	5		2	RECLAIMED GRASSLAND	324			4		2	2	
7/30/96	B	MULE DEER	ODHE1	BZ				11	O	5		2	MESIC MIXED GRASSLAND	322	SHORT UPLAND SHRUBLAND	220	4	4			
7/30/96	B	MULE DEER	ODHE1	BZ				14	F	0		2	MESIC MIXED GRASSLAND	322	TALL UPLAND SHRUBLAND	230	1	1			
7/30/96	B	MULE DEER	ODHE1	BZ				6	N	0		2	MESIC MIXED GRASSLAND	322	TALL UPLAND SHRUBLAND	230	3	3			
7/30/96	B	MULE DEER	ODHE1	BZ				7	O	0		2	MESIC MIXED GRASSLAND	322	XERIC MIXED GRASSLAND	323	6	6			
7/30/96	B	MULE DEER	ODHE1	BZ				6	M	1		2	ANNUAL GRASS/FORB	410	ROADSIDE/FENCEROW COMPLEX	540	2	1	1		
7/30/96	B	MULE DEER	ODHE1	BZ		OU5		7	G	0		2	RIPARIAN WOODLAND	110			6	2	4		
7/30/96	B	MULE DEER	ODHE1	BZ				13	F	5		2	TALL UPLAND SHRUBLAND	230			4		3	1	
7/30/96	B	MULE DEER	ODHE1	BZ				16	J	1		2	MESIC MIXED GRASSLAND	322			7	1	6		
7/30/96	B	MULE DEER	ODHE1	BZ	LANDFILL			13	L	5		2	MESIC MIXED GRASSLAND	322			2	2			
7/30/96	B	MULE DEER	ODHE1	BZ				13	P	5		2	MESIC MIXED GRASSLAND	322			1	1			
7/30/96	B	MULE DEER	ODHE1	BZ				12	O	5		2	MESIC MIXED GRASSLAND	322			4		4		
7/30/96	B	MULE DEER	ODHE1	BZ				11	O	5		2	MESIC MIXED GRASSLAND	322			3		3		
7/30/96	B	MULE DEER	ODHE1	BZ				8	O	5		2	MESIC MIXED GRASSLAND	322			10	9	1		
7/30/96	B	MULE DEER	ODHE1	BZ				5	L	1		2	MESIC MIXED GRASSLAND	322			1		1		
7/30/96	B	MULE DEER	ODHE1	BZ				2	M	5		2	MESIC MIXED GRASSLAND	322			1	1			
7/30/96	B	MULE DEER	ODHE1	BZ				12	O	1		2	XERIC MIXED GRASSLAND	323			2		2		
7/30/96	B	MULE DEER	ODHE1	BZ				12	N	5	1	2	RECLAIMED GRASSLAND	324			10	8	2		
8/5/96	B	MULE DEER	ODHE1	BZ	BS01B			15	J	0		2	TALL UPLAND SHRUBLAND	230			1	1			
8/5/96	B	MULE DEER	ODHE1	BZ	BS01R			14	H	1		2	XERIC MIXED GRASSLAND	323			1		1		
8/6/96	B	MULE DEER	ODHE1	BZ				14	J	0		2	TALL UPLAND SHRUBLAND	230			1	1			
8/6/96	B	MULE DEER	ODHE1	BZ				15	N	1	5	2	XERIC MIXED GRASSLAND	323			6	4	2		
8/7/96	B	MULE DEER	ODHE1	BZ	RW03B			7	G	0		2	RIPARIAN SHRUBLAND-AMORPHA	211	RIPARIAN SHRUBLAND-SALIX	212	6		6		
8/7/96	B	MULE DEER	ODHE1	BZ	RW03B			7	J	0		2	RIPARIAN WOODLAND	110			1				1
8/7/96	B	MULE DEER	ODHE1	BZ	RW03B			7	I	1		2	RIPARIAN WOODLAND	110			3		2	1	
8/7/96	B	MULE DEER	ODHE1	BZ	RG02A			7	F	0		2	MESIC MIXED GRASSLAND	322			3				3
8/7/96	B	MULE DEER	ODHE1	BZ	RG02A			7	I	1		2	MESIC MIXED GRASSLAND	322			4		4		
8/7/96	B	MULE DEER	ODHE1	BZ				7	N	5		2	MESIC MIXED GRASSLAND	322			4	4			
8/8/96	B	MULE DEER	ODHE1	BZ	BD03B			5	O	1	5	2	MESIC MIXED GRASSLAND	322			5	4	1		
8/8/96	B	MULE DEER	ODHE1	BZ				3	K	5		2	MESIC MIXED GRASSLAND	322	SHORT MARSH	20	3	3			
8/22/96	B	MULE DEER	ODHE1	BZ				17	I	5		2	XERIC MIXED GRASSLAND	323	SHORT MARSH	20	1	1			
8/22/96	B	MULE DEER	ODHE1	BZ				11	Q	1	5	2	MESIC MIXED GRASSLAND	322	TALL UPLAND SHRUBLAND	230	4	4			
8/22/96	B	MULE DEER	ODHE1	BZ				13	H	1	5	2	MESIC MIXED GRASSLAND	322	TALL UPLAND SHRUBLAND	230	4	3	1		
8/22/96	B	MULE DEER	ODHE1	BZ				7	S	0		2	RIPARIAN SHRUBLAND-SALIX	212	MESIC MIXED GRASSLAND	322	1	1			
8/22/96	B	MULE DEER	ODHE1	BZ				7	M	0		2	RIPARIAN WOODLAND	110			3		3		
8/22/96	B	MULE DEER	ODHE1	BZ				7	G	0		2	RIPARIAN WOODLAND	110			5	4	1		
8/22/96	B	MULE DEER	ODHE1	BZ				13	F	5		2	SHORT UPLAND SHRUBLAND	220			2		2		

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DATE	TAXN	SPECIES	SPEC	ADRN	SITE	OP	ROADNAME	RF	RF	ACTIV	ACTIV	DAY	HABITAT	HAB	HABITAT2	HAB	GRUP	MALES	FEMALES	YOUNG	UNC
	GROUP		CODE	AREA	NAME	UNIT		GRIDN	GRIDE	TY1	TY2	NGMT		TYPE		TYPE2	SIZE				LASSD
8/22/96	B	MULE DEER	ODHE1	BZ				7	M	1	5	2	SHORT UPLAND SHRUBLAND	220			1		1		
8/22/96	B	MULE DEER	ODHE1	BZ				15	G	5		2	TALL UPLAND SHRUBLAND	230			2	2			
8/22/96	B	MULE DEER	ODHE1	BZ				13	F	1		2	TALL UPLAND SHRUBLAND	230			6				6
8/22/96	B	MULE DEER	ODHE1	BZ				10	O	1	5	2	MESIC MIXED GRASSLAND	322			2		1	1	
8/22/96	B	MULE DEER	ODHE1	BZ				13	O	5		2	MESIC MIXED GRASSLAND	322			1		1		
8/22/96	B	MULE DEER	ODHE1	BZ				9	F	5		2	MESIC MIXED GRASSLAND	322			2		1	1	
8/22/96	B	MULE DEER	ODHE1	BZ	LOBELIA			14	J	5	1	2	MESIC MIXED GRASSLAND	322			1		1		
8/22/96	B	MULE DEER	ODHE1	BZ				8	P	1		2	MESIC MIXED GRASSLAND	322			3	2	1		
8/22/96	B	MULE DEER	ODHE1	BZ				7	G	0		2	MESIC MIXED GRASSLAND	322			2			2	
8/22/96	B	MULE DEER	ODHE1	BZ				11	S	0		2	MESIC MIXED GRASSLAND	322			7	1	6		
8/22/96	B	MULE DEER	ODHE1	BZ				3	P	1		2	MESIC MIXED GRASSLAND	322			2	2			
8/22/96	B	MULE DEER	ODHE1	BZ				9	F	5		2	XERIC MIXED GRASSLAND	323			3		1	2	
8/22/96	B	MULE DEER	ODHE1	BZ				13	I	5		2	XERIC MIXED GRASSLAND	323			3	1	2		
8/22/96	B	MULE DEER	ODHE1	BZ	LANDFILL	OU7		13	L	5		2	ANNUAL GRASS/FOB	410			1		1		
8/22/96	B	MULE DEER	ODHE1	BZ				10	I	1		2	DISTURBED BARREN LANDS	420			3			3	
8/26/96	B	MULE DEER	ODHE1	BZ	DRY CK.			14	T	5		2	MESIC MIXED GRASSLAND	322			3	3			
8/27/96	B	MULE DEER	ODHE1	BZ	SNOWBERY			12	E	1		2	MESIC MIXED GRASSLAND	322	SHORT UPLAND SHRUBLAND	220	7		7		
8/27/96	B	MULE DEER	ODHE1	BZ				10	F	1		2	XERIC MIXED GRASSLAND	323	MESIC MIXED GRASSLAND	322	2		1	1	
8/27/96	B	MULE DEER	ODHE1	BZ	RS01B			14	F	1		2	TALL UPLAND SHRUBLAND	230			1		1		
8/27/96	B	MULE DEER	ODHE1	BZ	RS01B			15	G	1		2	TALL UPLAND SHRUBLAND	230			3	1	2		
8/27/96	B	MULE DEER	ODHE1	BZ	RS01B			14	G	1		2	TALL UPLAND SHRUBLAND	230			3	3			
8/27/96	B	MULE DEER	ODHE1	BZ	RS01B			14	F	1		2	TALL UPLAND SHRUBLAND	230			5	1	4		
8/27/96	B	MULE DEER	ODHE1	BZ	RS01B			13	E	1		2	TALL UPLAND SHRUBLAND	230			1	1			
8/27/96	B	MULE DEER	ODHE1	BZ	RS02B			16	L	0		2	TALL UPLAND SHRUBLAND	230			4	4			
8/27/96	B	MULE DEER	ODHE1	BZ	RS02B			17	M	1		2	TALL UPLAND SHRUBLAND	230			1		1		
8/27/96	B	MULE DEER	ODHE1	BZ	ANT SPRG			6	K	1		2	MESIC MIXED GRASSLAND	322			7				7
8/27/96	B	MULE DEER	ODHE1	BZ				14	K	1		2	XERIC MIXED GRASSLAND	323			8	1	7		
8/27/96	B	MULE DEER	ODHE1	BZ	RG02B			17	O	1	5	2	XERIC MIXED GRASSLAND	323			3	3			
8/27/96	B	MULE DEER	ODHE1	BZ				9	L	1		2	DISTURBED BARREN LANDS	420			1			1	
8/28/96	B	MULE DEER	ODHE1	BZ	RW01A			7	O	0		2	RIPARIAN SHRUBLAND-SALIX	212	RIPARIAN WOODLAND	110	1	1			
8/28/96	B	MULE DEER	ODHE1	BZ	RA02B			12	N	0		2	TALL MARSH	30			1	1			
8/28/96	B	MULE DEER	ODHE1	BZ	RW01A			7	L	0		2	RIPARIAN SHRUBLAND-SALIX	212			2				1
8/28/96	B	MULE DEER	ODHE1	BZ	RA02B			12	N	0		2	MESIC MIXED GRASSLAND	322			4		4		
8/28/96	B	MULE DEER	ODHE1	BZ	RA02B			11	O	0		2	MESIC MIXED GRASSLAND	322			2		2		
8/28/96	B	MULE DEER	ODHE1	BZ	ARNICA			7	N	1		2	MESIC MIXED GRASSLAND	322			1	1			
8/28/96	B	MULE DEER	ODHE1	BZ	RW01A			7	O	0		2	MESIC MIXED GRASSLAND	322			8	8			
8/28/96	B	MULE DEER	ODHE1	BZ				6	N	0		2	MESIC MIXED GRASSLAND	322			2	2			
8/28/96	B	MULE DEER	ODHE1	BZ	RG01A			8	M	5		2	RECLAIMED GRASSLAND	324			2		1	1	
8/29/96	B	MULE DEER	ODHE1	BZ				3	K	1		2	MESIC MIXED GRASSLAND	322	SHORT UPLAND SHRUBLAND	220	3	3			
8/29/96	B	MULE DEER	ODHE1	BZ	RA03B			5	J	0		2	SHORT MARSH	20			1				1
8/29/96	B	MULE DEER	ODHE1	BZ	RS03B			5	P	0		2	RIPARIAN WOODLAND	110			1	1			
8/29/96	B	MULE DEER	ODHE1	BZ				7	I	0		2	RIPARIAN WOODLAND	110			1		1		
8/29/96	B	MULE DEER	ODHE1	BZ	RW02B			5	O	0		2	RIPARIAN SHRUBLAND-SALIX	212			1	1			
8/29/96	B	MULE DEER	ODHE1	BZ				7	O	0		2	RIPARIAN SHRUBLAND-SALIX	212			4	4			
9/12/96	B	MULE DEER	ODHE1	BZ	RG02A			7	G	0		2	RIPARIAN SHRUBLAND-AMORPHA	211			3		3		
9/12/96	B	MULE DEER	ODHE1	BZ	RW03B			7	F	5		2	RIPARIAN SHRUBLAND-AMORPHA	211			1		1		
9/12/96	B	MULE DEER	ODHE1	BZ	RG02A			7	G	5		2	MESIC MIXED GRASSLAND	322			5		4	1	
9/12/96	B	MULE DEER	ODHE1	BZ	RG02A			7	H	5		2	MESIC MIXED GRASSLAND	322			6	2	3	1	
9/12/96	B	MULE DEER	ODHE1	BZ	RG02A			7	I	1	5	2	MESIC MIXED GRASSLAND	322			6		3	3	
9/17/96	B	MULE DEER	ODHE1	BZ	RA01B			11	E	5		2	SHORT MARSH	20	WET MEADOW	10	3	3			
9/17/96	B	MULE DEER	ODHE1	BZ	RA01B			11	E	0		2	WET MEADOW	10			2	2			
9/17/96	B	MULE DEER	ODHE1	BZ	RA01B			13	H	0		2	TALL MARSH	30			2		2		
9/17/96	B	MULE DEER	ODHE1	BZ	RS03B			5	R	0		2	RIPARIAN SHRUBLAND-AMORPHA	211			1	1			
9/17/96	B	MULE DEER	ODHE1	BZ	RS03B			6	T	5		2	RIPARIAN SHRUBLAND-SALIX	212			3				3
9/17/96	B	MULE DEER	ODHE1	BZ				12	E	1		2	TALL UPLAND SHRUBLAND	230			3	3			
9/17/96	B	MULE DEER	ODHE1	BZ	BS01B			13	E	5		2	TALL UPLAND SHRUBLAND	230			2		2		
9/17/96	B	MULE DEER	ODHE1	BZ	RA01B			11	E	0		2	TALL UPLAND SHRUBLAND	230			1	1			
9/17/96	B	MULE DEER	ODHE1	BZ				11	E	0		2	MESIC MIXED GRASSLAND	322			6	4	2		

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DATE	TAXN	SPECIES	SPEC	ADMN	SITE	OP	ROADNAME	RF	RF	ACTIV	ACTIV	DAY	HABITAT	HAB	HABITAT2	HAB	GRUP	MALES	FEMALES	YOUNG	UNC
	GRUP		CODE	AREA	NAME	UNIT		GRIDN	GRIDE	TY1	TY2	NGHT		TYPE		TYPE2	SIZE				LASSO
9/17/96	B	MULE DEER	ODHE1	BZ	RG03B			3	N	0		2	MESIC MIXED GRASSLAND	322			5		5		
9/17/96	B	MULE DEER	ODHE1	BZ				13	F	5		2	XERIC MIXED GRASSLAND	323			5	1	3	1	
9/17/96	B	MULE DEER	ODHE1	BZ				14	F	1	5	2	XERIC MIXED GRASSLAND	323			6		4	2	
9/17/96	B	MULE DEER	ODHE1	BZ	RG03B			3	L	0		2	XERIC MIXED GRASSLAND	323			4	4			
9/18/96	B	MULE DEER	ODHE1	BZ	RS02B			15	K	0		2	TALL UPLAND SHRUBLAND	230			1	1			
9/18/96	B	MULE DEER	ODHE1	BZ				15	O	5		2	MESIC MIXED GRASSLAND	322			3	1	2		
9/18/96	B	MULE DEER	ODHE1	BZ	LOBELIA			14	J	0		2	MESIC MIXED GRASSLAND	322	TALL UPLAND SHRUBLAND	230	6	2	4		
9/19/96	B	MULE DEER	ODHE1	BZ	RS01B			14	F	0		2	TALL UPLAND SHRUBLAND	230			10	2	8		
9/19/96	B	MULE DEER	ODHE1	BZ	RS01B			15	G	1		2	TALL UPLAND SHRUBLAND	230			12	9	3		
9/19/96	B	MULE DEER	ODHE1	BZ	RS01B			15	H	1		2	TALL UPLAND SHRUBLAND	230			1	1			
9/19/96	B	MULE DEER	ODHE1	BZ	RS01B			13	F	1		2	TALL UPLAND SHRUBLAND	230			7				7
9/19/96	B	MULE DEER	ODHE1	BZ	RS01B			14	F	0		2	TALL UPLAND SHRUBLAND	230			4		4		
9/19/96	B	MULE DEER	ODHE1	BZ	RS01B			14	F	1		2	TALL UPLAND SHRUBLAND	230			9	4	4	1	
9/19/96	B	MULE DEER	ODHE1	BZ	RS01B			13	F	0		2	TALL UPLAND SHRUBLAND	230			2	2			
9/19/96	B	MULE DEER	ODHE1	BZ	RS01B			13	F	1		2	TALL UPLAND SHRUBLAND	230			1		1		
9/19/96	B	MULE DEER	ODHE1	BZ	LOBELIA			14	J	5	0	2	MESIC MIXED GRASSLAND	322			6	6			
9/19/96	B	MULE DEER	ODHE1	BZ				13	G	1		2	MESIC MIXED GRASSLAND	322			1		1		
9/19/96	B	MULE DEER	ODHE1	BZ	LOBELIA			15	J	0		2	MESIC MIXED GRASSLAND	322			2	2			
9/19/96	B	MULE DEER	ODHE1	BZ				12	H	1	5	2	XERIC MIXED GRASSLAND	323			5		2	3	
9/19/96	B	MULE DEER	ODHE1	BZ				5	H	1		2	XERIC MIXED GRASSLAND	323	MESIC MIXED GRASSLAND	322	13	5	6	2	
9/24/96	B	MULE DEER	ODHE1	BZ				14	E	1	5	2	TALL UPLAND SHRUBLAND	230			10	1	9		
9/24/96	B	MULE DEER	ODHE1	BZ				13	G	1	5	2	MESIC MIXED GRASSLAND	322			5	5			
9/24/96	B	MULE DEER	ODHE1	BZ				6	M	1		2	MESIC MIXED GRASSLAND	322			14	5	6	3	
9/24/96	B	MULE DEER	ODHE1	BZ				12	N	0		2	RIPARIAN WOODLAND	110	RIPARIAN SHRUBLAND-SALIX	212	1				1
9/25/96	B	MULE DEER	ODHE1	BZ	RA02A			12	N	0		2	RIPARIAN SHRUBLAND-SALIX	212			4		2	2	
9/25/96	B	MULE DEER	ODHE1	BZ	RA02A			16	K	0		4	RIPARIAN WOODLAND	110	RIPARIAN SHRUBLAND-SALIX	212	2				2
10/8/96	B	MULE DEER	ODHE1	BZ		OU7		12	O	5		4	XERIC MIXED GRASSLAND	323	MESIC MIXED GRASSLAND	322	8	3	3	2	
10/8/96	B	MULE DEER	ODHE1	BZ				6	R	1		4	MESIC MIXED GRASSLAND	322			1	1			
10/8/96	B	MULE DEER	ODHE1	BZ				2	L	5	0	4	MESIC MIXED GRASSLAND	322			19	6		3	10
10/8/96	B	MULE DEER	ODHE1	BZ				6	P	5		4	MESIC MIXED GRASSLAND	322			1				1
10/8/96	B	MULE DEER	ODHE1	BZ				6	J	0		4	MESIC MIXED GRASSLAND	322			4	4			
10/8/96	B	MULE DEER	ODHE1	BZ				15	O	0		4	MESIC MIXED GRASSLAND	322			3	3			
10/8/96	B	MULE DEER	ODHE1	BZ				10	D	0		4	MESIC MIXED GRASSLAND	322			1	1			
10/8/96	B	MULE DEER	ODHE1	BZ				13	G	5	1	4	MESIC MIXED GRASSLAND	322			1	1			
10/8/96	B	MULE DEER	ODHE1	BZ				17	K	0		4	MESIC MIXED GRASSLAND	322			1				1
10/8/96	B	MULE DEER	ODHE1	BZ				17	L	0		4	MESIC MIXED GRASSLAND	322			4				4
10/8/96	B	MULE DEER	ODHE1	BZ				12	P	0		4	MESIC MIXED GRASSLAND	322			1		1		
10/8/96	B	MULE DEER	ODHE1	BZ				12	O	0		4	MESIC MIXED GRASSLAND	322			4				4
10/8/96	B	MULE DEER	ODHE1	BZ		OU11		8	F	0		4	XERIC MIXED GRASSLAND	323			6		4	2	
10/8/96	B	MULE DEER	ODHE1	BZ				11	F	0		4	XERIC MIXED GRASSLAND	323			2	2			
10/8/96	B	MULE DEER	ODHE1	BZ				13	I	0		4	XERIC MIXED GRASSLAND	323			6	2	3	1	
10/8/96	B	MULE DEER	ODHE1	BZ				13	J	0	1	4	XERIC MIXED GRASSLAND	323			1	1			
10/10/96	B	MULE DEER	ODHE1	BZ				11	H	1		2	XERIC MIXED GRASSLAND	323			1		1		
10/21/96	B	MULE DEER	ODHE1	BZ	SID			8	O	0		2	TALL MARSH	30	RECLAIMED GRASSLAND	324	1	1			
10/21/96	B	MULE DEER	ODHE1	BZ	RW02B			3	M	1		2	MESIC MIXED GRASSLAND	322			19	3	13	3	
10/21/96	B	MULE DEER	ODHE1	BZ	RG03B			4	P	1		2	MESIC MIXED GRASSLAND	322			23	7	13	3	
10/22/96	B	MULE DEER	ODHE1	BZ	POND A-1	OU6		12	N	5		2	RIPARIAN WOODLAND	110	RIPARIAN SHRUBLAND-SALIX	212	5		2	3	
10/22/96	B	MULE DEER	ODHE1	BZ				13	O	6		2	RIPARIAN SHRUBLAND-SALIX	212			1	1			
10/22/96	B	MULE DEER	ODHE1	BZ	BG01R			15	O	5		2	MESIC MIXED GRASSLAND	322			5	5			
10/22/96	B	MULE DEER	ODHE1	BZ	POND A-1	OU6		12	N	5	0	2	MESIC MIXED GRASSLAND	322			12	3	6	3	
10/22/96	B	MULE DEER	ODHE1	BZ	RG01A	OU1		8	M	5		2	RECLAIMED GRASSLAND	324			12	1	8	3	
10/23/96	B	MULE DEER	ODHE1	BZ	BW01R			15	G	1		2	RIPARIAN WOODLAND	110	RIPARIAN SHRUBLAND-SALIX	212	1	1			
10/23/96	B	MULE DEER	ODHE1	BZ	RW03A	OU5		6	G	5		2	RIPARIAN SHRUBLAND-SALIX	212			3		2	1	
10/23/96	B	MULE DEER	ODHE1	BZ	RW03A	OU5		7	G	0		2	SHORT UPLAND SHRUBLAND	220			1	1			
10/23/96	B	MULE DEER	ODHE1	BZ	RS01B			14	F	0		2	TALL UPLAND SHRUBLAND	230			9	4	4	1	
10/23/96	B	MULE DEER	ODHE1	BZ	RS01B			14	E	0		2	TALL UPLAND SHRUBLAND	230			3		3		
10/23/96	B	MULE DEER	ODHE1	BZ	RS01B			14	G	1		2	TALL UPLAND SHRUBLAND	230			1	1			
10/23/96	B	MULE DEER	ODHE1	BZ	RS01B			13	E	5		2	TALL UPLAND SHRUBLAND	230			2	2			

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DATE	TAXN	SPECIES	SPEC	ADMN	SITE	OP	ROADNAME	RF	RF	ACTIV	ACTIV	DAY	HABITAT	HAB	HABITAT2	HAB	GRUP	MALES	FEMALES	YOUNG	UNC
	GRUP		CODE	AREA	NAME	UNIT		GRIDN	GRIDE	TY1	TY2	NGHT		TYPE		TYPE2	SIZE				LAUSD
10/23/96	B	MULE DEER	ODHE1	BZ				8	J	1			2	MESIC MIXED GRASSLAND	322		1		1		
10/23/96	B	MULE DEER	ODHE1	BZ	RA02B	OU6		10	N	0			2	MESIC MIXED GRASSLAND	322		4	1	2	1	
10/23/96	B	MULE DEER	ODHE1	BZ				10	H	0			2	MESIC MIXED GRASSLAND	322		5		3	2	
10/24/96	B	MULE DEER	ODHE1	BZ				15	P	1	5		2	MESIC MIXED GRASSLAND	322	RECLAIMED GRASSLAND	324	6	1	5	
10/24/96	B	MULE DEER	ODHE1	BZ				7	J	5			2	MESIC MIXED GRASSLAND	322		7	2	4	1	
10/24/96	B	MULE DEER	ODHE1	BZ	RG02B			15	O	5			2	XERIC MIXED GRASSLAND	323		5	5			
10/24/96	B	MULE DEER	ODHE1	BZ	BA01A			7	M	0			2	TALL MARSH	30		1	1			
10/25/96	B	MULE DEER	ODHE1	BZ				8	F	5			2	XERIC MIXED GRASSLAND	323		7	2	4	1	
10/28/96	B	MULE DEER	ODHE1	BZ				11	H	0			2	XERIC MIXED GRASSLAND	323		7	1	6		
10/30/96	B	MULE DEER	ODHE1	BZ				10	I	0			2	RIPARIAN SHRUBLAND-SALIX	212		1	1			
11/18/96	B	MULE DEER	ODHE1	BZ				9	G	1			2	XERIC MIXED GRASSLAND	323		3				3
11/18/96	B	MULE DEER	ODHE1	BZ				10	H	1			2	XERIC MIXED GRASSLAND	323		1		1		
11/18/96	B	MULE DEER	ODHE1	BZ				12	P	6	1		2	MESIC MIXED GRASSLAND	322		6	2	4		
11/19/96	B	MULE DEER	ODHE1	BZ	POND A-3	OU6		10	O	18			2	ROCK AND GRAVEL PILES	530		1	1			
11/19/96	B	MULE DEER	ODHE1	BZ	POND B-2	OU6		6	L	4			2	XERIC MIXED GRASSLAND	323	MESIC MIXED GRASSLAND	322	19	5	14	
11/20/96	B	MULE DEER	ODHE1	BZ	RA03B			8	I	1			2	SHORT MARSH	20		1		1		
11/20/96	B	MULE DEER	ODHE1	BZ	RA01B			13	H	1			2	SHORT MARSH	20		1	1			
11/20/96	B	MULE DEER	ODHE1	BZ	RS01B			14	F	1	5		2	TALL UPLAND SHRUBLAND	230		8	2	5	1	
11/20/96	B	MULE DEER	ODHE1	BZ	RS01B			14	E	5			2	TALL UPLAND SHRUBLAND	230		1	1			
11/20/96	B	MULE DEER	ODHE1	BZ	RS01B			14	F	0			2	TALL UPLAND SHRUBLAND	230		3				
11/20/96	B	MULE DEER	ODHE1	BZ	RS01B			14	G	5			2	TALL UPLAND SHRUBLAND	230		1	1		3	
11/20/96	B	MULE DEER	ODHE1	BZ	RS01B			13	F	1			2	TALL UPLAND SHRUBLAND	230		4	2			
11/20/96	B	MULE DEER	ODHE1	BZ				12	E	0			2	TALL UPLAND SHRUBLAND	230		5		2		
11/20/96	B	MULE DEER	ODHE1	BZ	BORROW P			6	O	5	1		2	MESIC MIXED GRASSLAND	322		6	2	3	1	
11/20/96	B	MULE DEER	ODHE1	BZ		OU6		12	M	6	5		2	MESIC MIXED GRASSLAND	322		1	1			
11/20/96	B	MULE DEER	ODHE1	BZ	POND A-2	OU6		4	D	0			2	MESIC MIXED GRASSLAND	322		5	1	4		
11/20/96	B	MULE DEER	ODHE1	BZ		OU11		15	J	6			2	MESIC MIXED GRASSLAND	322	TALL UPLAND SHRUBLAND	230	2	1	1	
11/21/96	B	MULE DEER	ODHE1	BZ	LOBELI1			12	P	1	5		2	MESIC MIXED GRASSLAND	322		12	5	7		
11/21/96	B	MULE DEER	ODHE1	BZ	POND A-3	OU6		7	K	1			2	MESIC MIXED GRASSLAND	322	RIPARIAN SHRUBLAND-SALIX	212	1		1	
11/22/96	B	MULE DEER	ODHE1	BZ				2	L	1			2	MESIC MIXED GRASSLAND	322	XERIC MIXED GRASSLAND	323	1		1	
11/22/96	B	MULE DEER	ODHE1	BZ	RG03B			5	M	0			2	RIPARIAN SHRUBLAND-SALIX	212		4	1	3		
11/22/96	B	MULE DEER	ODHE1	BZ	RW02B			7	M	0			2	RIPARIAN SHRUBLAND-SALIX	212		1				1
11/22/96	B	MULE DEER	ODHE1	BZ	RW01A			7	J	1	5		2	RIPARIAN SHRUBLAND-SALIX	212		3	3			
11/22/96	B	MULE DEER	ODHE1	BZ				5	F	5	0		2	MESIC MIXED GRASSLAND	322		8	1	6	1	
11/22/96	B	MULE DEER	ODHE1	BZ				5	F	5	0		2	MESIC MIXED GRASSLAND	322		7	4	3		
11/22/96	B	MULE DEER	ODHE1	BZ				6	G	5	0		2	MESIC MIXED GRASSLAND	322		6	1	5		
11/22/96	B	MULE DEER	ODHE1	BZ				4	K	0			2	MESIC MIXED GRASSLAND	322		7	1	5	1	
11/22/96	B	MULE DEER	ODHE1	BZ				4	J	0			2	MESIC MIXED GRASSLAND	322		6	4	2		
11/22/96	B	MULE DEER	ODHE1	BZ				7	I	6			2	MESIC MIXED GRASSLAND	322		3	2	1		
11/22/96	B	MULE DEER	ODHE1	BZ				3	N	1			2	XERIC MIXED GRASSLAND	323		1	1			
11/22/96	B	MULE DEER	ODHE1	BZ				4	G	0			2	XERIC MIXED GRASSLAND	323		2	1	1		
11/22/96	B	MULE DEER	ODHE1	BZ				7	D	5			2	XERIC MIXED GRASSLAND	323		7	1	5	1	
11/22/96	B	MULE DEER	ODHE1	BZ				7	E	6			2	XERIC MIXED GRASSLAND	323		2	1	1		
11/22/96	B	MULE DEER	ODHE1	IA				11	I	5			2	RECLAIMED GRASSLAND	324		1		1		
11/25/96	B	MULE DEER	ODHE1	BZ	RA02A	OU6		11	M	1			2	RIPARIAN WOODLAND	110	RIPARIAN SHRUBLAND-SALIX	212	2	1		1
11/25/96	B	MULE DEER	ODHE1	BZ	BS01B			14	F	2			2	RIPARIAN SHRUBLAND	210	TALL UPLAND SHRUBLAND	230	1	1		
11/25/96	B	MULE DEER	ODHE1	BZ	BS01B			13	E	0			2	SAVANNAH SHRUBLAND	260		9	2	5	2	
11/25/96	B	MULE DEER	ODHE1	BZ	RA02A	OU6		12	O	6	1		2	MESIC MIXED GRASSLAND	322		4		3	1	
11/25/96	B	MULE DEER	ODHE1	BZ	BS01B			16	I	5			2	MESIC MIXED GRASSLAND	322		10	4	6		
11/25/96	B	MULE DEER	ODHE1	BZ				7	I	6			2	MESIC MIXED GRASSLAND	322	RIPARIAN SHRUBLAND-SALIX	212	4	1	3	
11/26/96	B	MULE DEER	ODHE1	BZ				7	I	6			2	MESIC MIXED GRASSLAND	322	RIPARIAN SHRUBLAND-SALIX	212	1	1		
11/26/96	B	MULE DEER	ODHE1	BZ				14	G	6			2	MESIC MIXED GRASSLAND	322	TALL UPLAND SHRUBLAND	230	3	2	1	
11/26/96	B	MULE DEER	ODHE1	BZ				5	O	5	1		2	RIPARIAN SHRUBLAND-SALIX	212	MESIC MIXED GRASSLAND	322	2		1	1
11/26/96	B	MULE DEER	ODHE1	BZ				13	K	6	1		2	MESIC MIXED GRASSLAND	322	XERIC MIXED GRASSLAND	323	5	3	1	1
11/26/96	B	MULE DEER	ODHE1	BZ				7	C	1			2	ANNUAL GRASS/FORB	410	XERIC MIXED GRASSLAND	323	1	1		
11/26/96	B	MULE DEER	ODHE1	BZ				10	H	6			2	SHORT MARSH	20	RECLAIMED GRASSLAND	324	5	2	3	
11/26/96	B	MULE DEER	ODHE1	BZ		OU5		7	I	6	5		2	RECLAIMED GRASSLAND	324	ANNUAL GRASS/FORB	410	10	4	4	2

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DATE	TAXN	SPECIES	SPEC	ADMN	SITE	OP	ROADNAME	RF	RF	ACTIV	ACTIV	DAY	HABITAT	HAB	HABITAT2	HAB	GRUP	MALES	FEMALES	YOUNG	UNC
	GRUP		CODE	AREA	NAME	UNIT		GRIDN	GRIDE	TY1	TY2	NGHT		TYPE		TYPE2	SIZE				LASSO
11/26/96	B	MULE DEER	ODHE1	BZ				8	N	1		2	SHORT MARSH	20			1	1			
11/26/96	B	MULE DEER	ODHE1	BZ				8	O	5		2	MESIC MIXED GRASSLAND	322			2		2		
11/26/96	B	MULE DEER	ODHE1	BZ				5	G	0		2	MESIC MIXED GRASSLAND	322			1	1			
11/26/96	B	MULE DEER	ODHE1	BZ				8	N	0		2	MESIC MIXED GRASSLAND	322			6	1	4	1	
11/26/96	B	MULE DEER	ODHE1	BZ				10	S	5	6	2	MESIC MIXED GRASSLAND	322			8	1	7		
11/26/96	B	MULE DEER	ODHE1	BZ	CLAYPIT	OU11		8	O	0		2	XERIC MIXED GRASSLAND	323			10	1	8	1	
11/26/96	B	MULE DEER	ODHE1	BZ				10	E	5		2	XERIC MIXED GRASSLAND	323			1		1		
11/26/96	B	MULE DEER	ODHE1	BZ				13	J	1		2	XERIC MIXED GRASSLAND	323			1		1		
11/26/96	B	MULE DEER	ODHE1	BZ				13	K	6	5	2	XERIC MIXED GRASSLAND	323			8	4	3	1	
11/26/96	B	MULE DEER	ODHE1	BZ				12	G	5	0	2	XERIC MIXED GRASSLAND	323			1		1		
11/26/96	B	MULE DEER	ODHE1	BZ				12	G	5		2	XERIC MIXED GRASSLAND	323			5	1	2	2	
11/26/96	B	MULE DEER	ODHE1	BZ				13	L	0		2	XERIC MIXED GRASSLAND	323			1	1			
11/26/96	B	MULE DEER	ODHE1	BZ				12	N	1		2	XERIC MIXED GRASSLAND	323			2		2		
11/26/96	B	MULE DEER	ODHE1	BZ				5	G	0		2	XERIC MIXED GRASSLAND	323			1	1			
11/26/96	B	MULE DEER	ODHE1	BZ	POND B-1	DAM		10	O	6		2	RECLAIMED GRASSLAND	324			3	1	2		
11/26/96	B	MULE DEER	ODHE1	BZ	LANDFILL			12	K	1		2	ANNUAL GRASS/FOB	410			3		2	1	
11/26/96	B	MULE DEER	ODHE1	BZ	LANDFILL			12	K	1		2	ANNUAL GRASS/FOB	410			3		2	1	
12/18/96	B	MULE DEER	ODHE1	BZ	RA01B			11	E	1		2	TALL MARSH	30	SHORT MARSH	20	2				2
12/18/96	B	MULE DEER	ODHE1	BZ	LOBELIA			15	J	0		2	MESIC MIXED GRASSLAND	322	TALL UPLAND SHRUBLAND	230	20	3	12	5	
12/18/96	B	MULE DEER	ODHE1	BZ	RA01B			13	F	1		2	SHORT MARSH	20	TALL MARSH	30	2				2
12/18/96	B	MULE DEER	ODHE1	BZ	RW03B			7	G	5		2	RIPARIAN WOODLAND	110	MESIC MIXED GRASSLAND	322	21	7	10	4	
12/18/96	B	MULE DEER	ODHE1	BZ				7	G	5		2	MESIC MIXED GRASSLAND	322	XERIC MIXED GRASSLAND	323	19				19
12/18/96	B	MULE DEER	ODHE1	BZ	RW03B			7	K	1		2	RIPARIAN SHRUBLAND-SALIX	212			1				1
12/18/96	B	MULE DEER	ODHE1	BZ	RS01B			14	E	0		2	TALL UPLAND SHRUBLAND	230			5	4	1		
12/18/96	B	MULE DEER	ODHE1	BZ	MAHONIA			14	G	0		2	SAVANNAH SHRUBLAND	260			7		6	1	
12/18/96	B	MULE DEER	ODHE1	BZ				7	R	5		2	MESIC MIXED GRASSLAND	322			3	3			
12/18/96	B	MULE DEER	ODHE1	BZ				10	U	5		2	MESIC MIXED GRASSLAND	322			13				13
12/18/96	B	MULE DEER	ODHE1	BZ	SNOWBERRY			13	F	1		2	MESIC MIXED GRASSLAND	322			2	2			
12/18/96	B	MULE DEER	ODHE1	IA	881 HILL	OU1		8	L	5		2	RECLAIMED GRASSLAND	324			3		3		
12/18/96	B	MULE DEER	ODHE1	BZ	130TRLS	OU11		8	G	5		2	RECLAIMED GRASSLAND	324			10	2	5	3	
12/19/96	B	MULE DEER	ODHE1	IA	I.W.GATE		L.BIRD TREES	8	H	1	5	2	RECLAIMED GRASSLAND	324	TREE PLANTINGS	130	16	2	10	4	
12/19/96	B	MULE DEER	ODHE1	BZ	RW02B			4	M	5	1	2	RIPARIAN SHRUBLAND-SALIX	212	MESIC MIXED GRASSLAND	322	18	3	10	5	
12/19/96	B	MULE DEER	ODHE1	BZ				11	S	1		2	XERIC MIXED GRASSLAND	323	MESIC MIXED GRASSLAND	322	1	1			
12/19/96	B	MULE DEER	ODHE1	BZ	RS03B			5	Q	0	0	2	RIPARIAN SHRUBLAND-SALIX	212			8				8
12/19/96	B	MULE DEER	ODHE1	BZ				5	L	1		2	MESIC MIXED GRASSLAND	322			1	1			
12/19/96	B	MULE DEER	ODHE1	BZ	RG03B			2	N	0		2	MESIC MIXED GRASSLAND	322			1	1			
12/19/96	B	MULE DEER	ODHE1	BZ				15	R	5		2	MESIC MIXED GRASSLAND	322			4	4			
12/19/96	B	MULE DEER	ODHE1	BZ		OU2		8	P	5		2	MESIC MIXED GRASSLAND	322			8				8
12/19/96	B	MULE DEER	ODHE1	BZ	BORROW P			6	P	5		2	MESIC MIXED GRASSLAND	322			3	3			
12/19/96	B	MULE DEER	ODHE1	BZ				15	Q	5		2	RECLAIMED GRASSLAND	324			2	2			
12/20/96	B	MULE DEER	ODHE1	BZ	PLM/MAHN			15	G	5	0	2	MESIC MIXED GRASSLAND	322	TALL UPLAND SHRUBLAND	230	6	1	4	1	
12/20/96	B	MULE DEER	ODHE1	BZ	RS02B			15	K	5		2	TALL MARSH	30			1	1			
12/20/96	B	MULE DEER	ODHE1	BZ	RS02B			16	L	1		2	TALL UPLAND SHRUBLAND	230			7				7
12/20/96	B	MULE DEER	ODHE1	BZ	RS02B			17	L	1		2	MESIC MIXED GRASSLAND	322			5		5		
12/20/96	B	MULE DEER	ODHE1	BZ	RA02B	OU6		10	P	1		2	MESIC MIXED GRASSLAND	322			5		5		
12/20/96	B	MULE DEER	ODHE1	BZ	BW01R			17	L	1		2	MESIC MIXED GRASSLAND	322			1	1			
12/23/96	B	MULE DEER	ODHE1	BZ				7	G	0		2	SHORT MARSH	20	WET MEADOW	10	8	2	6		
12/23/96	B	MULE DEER	ODHE1	BZ				6	I	1		2	XERIC MIXED GRASSLAND	323	SHORT MARSH	20	2			1	1
12/23/96	B	MULE DEER	ODHE1	BZ				11	P	1		2	XERIC MIXED GRASSLAND	323	MESIC MIXED GRASSLAND	322	4	4			
12/23/96	B	MULE DEER	ODHE1	BZ				13	G	1		2	TALL UPLAND SHRUBLAND	230			1		1		
12/23/96	B	MULE DEER	ODHE1	BZ				7	T	1	5	2	MESIC MIXED GRASSLAND	322			2	2			
12/23/96	B	MULE DEER	ODHE1	BZ	OLD RANG	OU2		8	O	0		2	MESIC MIXED GRASSLAND	322			7	7			
12/23/96	B	MULE DEER	ODHE1	BZ				7	K	0		2	MESIC MIXED GRASSLAND	322			20	5	11	4	
12/23/96	B	MULE DEER	ODHE1	BZ				7	H	5	0	2	MESIC MIXED GRASSLAND	322			11	1	7	3	
12/23/96	B	MULE DEER	ODHE1	BZ				15	G	0		2	MESIC MIXED GRASSLAND	322			8	8			
12/23/96	B	MULE DEER	ODHE1	BZ				15	Q	5		2	MESIC MIXED GRASSLAND	322			5	5			
12/23/96	B	MULE DEER	ODHE1	BZ				13	N	0		2	MESIC MIXED GRASSLAND	322			10	2	6	2	
12/23/96	B	MULE DEER	ODHE1	BZ				9	D	5		2	XERIC MIXED GRASSLAND	323			4	4			

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DATE	TAXN	SPECIES	SPEC	ADMN	SITE	OP	ROADNAME	RF	RF	ACTV	ACTV	DAY	HABITAT	HAB	HABITAT2	HAB	GRUP	MALES	FEMALES	YOUNG	UNC
	GRUP		CODE	AREA	NAME	UNIT		GRIDN	GRIDE	TY1	TY2	NGHT		TYPE		TYPE2	SIZE				CLASSO
12/23/96	B	MULE DEER	ODHE1	BZ				14	K	0		2	XERIC MIXED GRASSLAND	323			7	1	5	1	
12/23/96	B	MULE DEER	ODHE1	BZ				13	M	0		2	XERIC MIXED GRASSLAND	323			9		7	2	
12/23/96	B	MULE DEER	ODHE1	BZ	SID			7	L	5		2	RECLAIMED GRASSLAND	324			1	1			
12/31/96	B	MULE DEER	ODHE1	BZ		OU11		8	F	5		2	XERIC MIXED GRASSLAND	323			12				12
7/29/96	B	WHITE-TAILED DEER	ODV11	BZ				2	J	5		2	MESIC MIXED GRASSLAND	322			1				1
1/31/96	B	WHITE-TAILED DEER	ODV11	BZ				8	S	5	0	2	MESIC MIXED GRASSLAND	322			1		1		
2/8/96	B	WHITE-TAILED DEER	ODV11	BZ	BD03B			5	Q			2	RIPARIAN SHRUBLAND-AMORPHA	211	RECLAIMED GRASSLAND	324	3		3		
2/13/96	B	WHITE-TAILED DEER	ODV11	BZ	DRY CK.			15	Q	5		2	MESIC MIXED GRASSLAND	322			1		1		
2/14/96	B	WHITE-TAILED DEER	ODV11	BZ	BA01B			5	J	1	5	2	XERIC MIXED GRASSLAND	323			1	1			
3/29/96	B	WHITE-TAILED DEER	ODV11	BZ	RW01B			15	T	5		2	MESIC MIXED GRASSLAND	322			1		1		
3/31/96	B	WHITE-TAILED DEER	ODV11	BZ				7	R	1		2	MESIC MIXED GRASSLAND	322			5		5		
4/30/96	B	WHITE-TAILED DEER	ODV11	BZ	ELK RDG			14	P	0		2	MESIC MIXED GRASSLAND	322			1				1
5/9/96	B	WHITE-TAILED DEER	ODV11	BZ				12	R	11		2	MESIC MIXED GRASSLAND	322			2				2
6/3/96	B	WHITE-TAILED DEER	ODV11	BZ				12	N	1	5	2	RIPARIAN SHRUBLAND-SALIX	212			1		1		
6/10/96	B	WHITE-TAILED DEER	ODV11	BZ	BX01B			11	S	1		2	XERIC MIXED GRASSLAND	323			1		1		
6/25/96	B	WHITE-TAILED DEER	ODV11	BZ	LOBELIA			14	J	1		2	TALL UPLAND SHRUBLAND	230	MESIC MIXED GRASSLAND	322	1		1		
6/27/96	B	WHITE-TAILED DEER	ODV11	BZ	BS03B			4	T	1		2	RIPARIAN SHRUBLAND-SALIX	212			3	3			
7/22/96	B	WHITE-TAILED DEER	ODV11	BZ	RA02B	OU6		11	P	5		2	MESIC MIXED GRASSLAND	322			1		1		
7/29/96	B	WHITE-TAILED DEER	ODV11	BZ				7	R	5		2	RIPARIAN WOODLAND	110	RIPARIAN SHRUBLAND-AMORPHA	211	2	2			
7/30/96	B	WHITE-TAILED DEER	ODV11	BZ				12	N	0		2	RECLAIMED GRASSLAND	324			1		1		
8/6/96	B	WHITE-TAILED DEER	ODV11	BZ				16	J	1		2	MESIC MIXED GRASSLAND	322			1		1		
8/8/96	B	WHITE-TAILED DEER	ODV11	BZ	BD03B			5	Q	1	5	2	MESIC MIXED GRASSLAND	322			1		1		
8/22/96	B	WHITE-TAILED DEER	ODV11	BZ				5	T	1	5	2	RIPARIAN SHRUBLAND-AMORPHA	211	RIPARIAN SHRUBLAND-SALIX	212	3	2	1		
8/28/96	B	WHITE-TAILED DEER	ODV11	BZ	RA02B			12	N	0		2	MESIC MIXED GRASSLAND	322			1		1		
8/29/96	B	WHITE-TAILED DEER	ODV11	BZ	RS03B			5	P	0		2	TALL MARSH	30			2	2			
8/29/96	B	WHITE-TAILED DEER	ODV11	BZ	RW02B			5	O	0		2	RIPARIAN SHRUBLAND-SALIX	212			1		1		
9/16/96	B	WHITE-TAILED DEER	ODV11	BZ	BS03B			5	R	1		2	RIPARIAN WOODLAND	110			2		2		
9/17/96	B	WHITE-TAILED DEER	ODV11	BZ	RS03B			4	T	1	5	2	RIPARIAN SHRUBLAND-AMORPHA	211	MESIC MIXED GRASSLAND	322	3	2	1		
10/8/96	B	WHITE-TAILED DEER	ODV11	BZ				6	T	5		4	RIPARIAN SHRUBLAND-SALIX	212			4				4
10/24/96	B	WHITE-TAILED DEER	ODV11	BZ				15	P	1	5	2	MESIC MIXED GRASSLAND	322	RECLAIMED GRASSLAND	324	1		1		
11/21/96	B	WHITE-TAILED DEER	ODV11	BZ	POND A-3	OU6		12	P	1	5	2	MESIC MIXED GRASSLAND	322			1		1		
11/26/96	B	WHITE-TAILED DEER	ODV11	BZ				10	S	5		2	MESIC MIXED GRASSLAND	322			1		1		
12/18/96	B	WHITE-TAILED DEER	ODV11	BZ				7	R	5		2	MESIC MIXED GRASSLAND	322			1		1		
1/18/96	C	COYOTE	CALA1	BZ				15	O	1		2	MESIC MIXED GRASSLAND	322	RECLAIMED GRASSLAND	324	1				1
1/18/96	C	COYOTE	CALA1	BZ				6	J	5		2	WET MEADOW	10			1				1
1/18/96	C	COYOTE	CALA1	BZ				14	O	1		2	MESIC MIXED GRASSLAND	322			1				1
1/18/96	C	COYOTE	CALA1	BZ				15	P	1		2	MESIC MIXED GRASSLAND	322			1				1
1/18/96	C	COYOTE	CALA1	BZ				13	L	1		2	MESIC MIXED GRASSLAND	322			1				1
1/18/96	C	COYOTE	CALA1	BZ				9	R	1		2	MESIC MIXED GRASSLAND	322			1				1
1/19/96	C	COYOTE	CALA1	BZ				13	H	5		2	SHORT MARSH	20	TALL MARSH	30	2				2
1/19/96	C	COYOTE	CALA1	BZ				13	E	1		2	TALL UPLAND SHRUBLAND	230			1				1
1/29/96	C	COYOTE	CALA1	BZ	RA02A			7	I	5		2	SHORT MARSH	20			1				1
1/29/96	C	COYOTE	CALA1	BZ	ANT SPRG			5	I	5		2	SHORT MARSH	20			1				1
1/30/96	C	COYOTE	CALA1	BZ	BA01B			5	J	5		2	SHORT MARSH	20	TALL MARSH	30	1				1
1/30/96	C	COYOTE	CALA1	BZ	RS02B			15	J	5		2	SHORT MARSH	20			1				1
1/31/96	C	COYOTE	CALA1	BZ	RS01B			15	G	5		2	TALL UPLAND SHRUBLAND	230			2				2
1/31/96	C	COYOTE	CALA1	BZ	RW01B			14	Q	5		2	MESIC MIXED GRASSLAND	322			1				1
1/31/96	C	COYOTE	CALA1	BZ	ARNICA			8	N	1		2	MESIC MIXED GRASSLAND	322			1				1
1/31/96	C	COYOTE	CALA1	BZ	RG03B			3	M	1	17	2	XERIC MIXED GRASSLAND	323			1	1			
2/8/96	C	COYOTE	CALA1	BZ	BD02B			2	U	5		2	RECLAIMED GRASSLAND	324			1				1
2/14/96	C	COYOTE	CALA1	BZ	BG01B			5	F	50		2	XERIC MIXED GRASSLAND	323			1				1
2/28/96	C	COYOTE	CALA1	BZ				13	H	5		2	SHORT MARSH	20			1				1
2/28/96	C	COYOTE	CALA1	BZ	RW01A			7	O	1		2	RIPARIAN WOODLAND	110			1				1
2/28/96	C	COYOTE	CALA1	BZ	RS01B			13	F	5		2	TALL UPLAND SHRUBLAND	230			1				1
2/28/96	C	COYOTE	CALA1	BZ	RG03B			3	N	5		2	MESIC MIXED GRASSLAND	322			2				2
2/28/96	C	COYOTE	CALA1	BZ	RG02A			7	G	5		2	MESIC MIXED GRASSLAND	322			1				1
2/29/96	C	COYOTE	CALA1	BZ	RA04B			2	U	5		2	TALL MARSH	30			2				2
2/29/96	C	COYOTE	CALA1	BZ	RS02B			16	O	1	5	2	TALL UPLAND SHRUBLAND	230			2				2

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DATE	TAXN	SPECIES	SPEC	ADRN	SITE	OP	ROADNAME	RF	RF	ACTIV	ACTIV	DAY	HABITAT	HAB	HABITAT2	HAB	GRUP	MALES	FEMALES	YOUNG	UNC
	GRUP		CODE	AREA	NAME	UNIT		GRIDN	GRIDE	TY1	TY2	NGHT		TYPE		TYPE2	SIZE				LESSO
2/29/96	C	COYOTE	CALA1	BZ	RG02B			16	N	5		2	XERIC MIXED GRASSLAND	323			2				2
3/27/96	C	COYOTE	CALA1	BZ	LOBELIA			14	J	5		2	MESIC MIXED GRASSLAND	322	TALL UPLAND SHRUBLAND	230	1				1
3/27/96	C	COYOTE	CALA1	BZ				14	G	5		2	SHORT MARSH	20	TALL UPLAND SHRUBLAND	230	1	1			
3/27/96	C	COYOTE	CALA1	BZ				11	E	5		2	WET MEADOW	10			1				1
3/29/96	C	COYOTE	CALA1	BZ	RS02B			15	K	5		2	SHORT MARSH	20			1				1
3/29/96	C	COYOTE	CALA1	BZ	BG01B			3	F			2	XERIC MIXED GRASSLAND	323			1				1
4/30/96	C	COYOTE	CALA1	BZ	RA01B			12	G	5		2	SHORT MARSH	20			1				1
4/30/96	C	COYOTE	CALA1	BZ	RS02B			15	K	50		2	TALL UPLAND SHRUBLAND	230			1				1
5/1/96	C	COYOTE	CALA1	BZ				3	F	1		2	XERIC MIXED GRASSLAND	323			1				1
5/2/96	C	COYOTE	CALA1	BZ				4	L	5		2	RIPARIAN SHRUBLAND-SALIX	212			3				3
5/8/96	C	COYOTE	CALA1	BZ				12	P	5		2	RIPARIAN SHRUBLAND-SALIX	212			1				1
5/9/96	C	COYOTE	CALA1	BZ				12	R	1		2	MESIC MIXED GRASSLAND	322			1				1
5/9/96	C	COYOTE	CALA1	BZ				12	O	1		2	MESIC MIXED GRASSLAND	322			1				1
5/21/96	C	COYOTE	CALA1	BZ				14	O	5	1	2	MESIC MIXED GRASSLAND	322			1				1
6/4/96	C	COYOTE	CALA1	BZ	BG02B			10	D	5		2	MESIC MIXED GRASSLAND	322			1				1
6/11/96	C	COYOTE	CALA1	BZ	BW01A	OU1		7	L	5		2	MESIC MIXED GRASSLAND	322			1				1
6/11/96	C	COYOTE	CALA1	BZ				13	F	0		2	MESIC MIXED GRASSLAND	322			1				1
6/12/96	C	COYOTE	CALA1	BZ	BG01R			4	F	5		2	XERIC MIXED GRASSLAND	323			1				1
6/17/96	C	COYOTE	CALA1	BZ	BG02B			10	D	12	13	2	MESIC MIXED GRASSLAND	322			8			4	4
6/19/96	C	COYOTE	CALA1	BZ	POND D-2			2	T	1		2	IMPOUNDMENT MUDFLAT	93			1				1
6/24/96	C	COYOTE	CALA1	BZ	BX01B			10	R	5		2	XERIC MIXED GRASSLAND	323			1				1
6/25/96	C	COYOTE	CALA1	BZ				4	T	5	1	2	MESIC MIXED GRASSLAND	322	RECLAIMED GRASSLAND	324	1				1
6/26/96	C	COYOTE	CALA1	BZ	BG01B			2	F	5		2	XERIC MIXED GRASSLAND	323			1				1
6/27/96	C	COYOTE	CALA1	BZ	RW01A			7	O	50		2	RIPARIAN WOODLAND	110			1				1
6/27/96	C	COYOTE	CALA1	BZ	RW01A			7	P	1		2	RIPARIAN SHRUBLAND-SALIX	212			5			5	
6/27/96	C	COYOTE	CALA1	BZ	RG03B			3	N	5		2	MESIC MIXED GRASSLAND	322			1				1
6/27/96	C	COYOTE	CALA1	BZ	RG03B			3	M	5	1	2	XERIC MIXED GRASSLAND	323			1				1
7/17/96	C	COYOTE	CALA1	BZ	RS02B			16	L	50		2	TALL UPLAND SHRUBLAND	230			1				1
7/17/96	C	COYOTE	CALA1	BZ	RS02B			17	M	1		2	TALL UPLAND SHRUBLAND	230			1			1	
7/25/96	C	COYOTE	CALA1	BZ	POND D-2			2	U	1		2	IMPOUNDMENT MUDFLAT	93			1				1
7/30/96	C	COYOTE	CALA1	BZ				6	K	1		2	MESIC MIXED GRASSLAND	322	ANNUAL GRASS/FORB	410	1				1
7/30/96	C	COYOTE	CALA1	BZ				14	F	5		2	MESIC MIXED GRASSLAND	322			1				1
7/30/96	C	COYOTE	CALA1	BZ				5	M	1		2	MESIC MIXED GRASSLAND	322			1				1
7/30/96	C	COYOTE	CALA1	BZ				6	K	1		2	MESIC MIXED GRASSLAND	322			1				1
7/30/96	C	COYOTE	CALA1	BZ	LOBELIA			15	J	5		2	XERIC MIXED GRASSLAND	323			6				6
8/6/96	C	COYOTE	CALA1	BZ	BW01R			16	I	1		2	MESIC MIXED GRASSLAND	322			2			2	
8/6/96	C	COYOTE	CALA1	BZ	BW01R			16	J	1		2	MESIC MIXED GRASSLAND	322			2			2	
8/7/96	C	COYOTE	CALA1	BZ	BA01B			5	I	5		2	MESIC MIXED GRASSLAND	322	SHORT MARSH	20	1				1
8/22/96	C	COYOTE	CALA1	BZ				15	G	5		2	MESIC MIXED GRASSLAND	322			2				2
8/22/96	C	COYOTE	CALA1	BZ				7	G	1		2	MESIC MIXED GRASSLAND	322			1				1
8/22/96	C	COYOTE	CALA1	BZ				13	I	5		2	XERIC MIXED GRASSLAND	323			1				1
8/22/96	C	COYOTE	CALA1	BZ	RS01B			14	F	1		2	MESIC MIXED GRASSLAND	322			2			1	1
8/27/96	C	COYOTE	CALA1	BZ	RG02B			15	M	50		2	XERIC MIXED GRASSLAND	323			1				1
8/27/96	C	COYOTE	CALA1	BZ	RG03B			3	N	5	1	2	MESIC MIXED GRASSLAND	322	XERIC MIXED GRASSLAND	323	1			1	
8/29/96	C	COYOTE	CALA1	BZ	RA03B			5	J	50		2	SHORT UPLAND SHRUBLAND	220			1				1
8/29/96	C	COYOTE	CALA1	BZ	RS03B			4	T	50		2	TALL UPLAND SHRUBLAND	230			1				1
9/4/96	C	COYOTE	CALA1	BZ	BG01B			2	H	13		2	XERIC MIXED GRASSLAND	323			4				4
9/12/96	C	COYOTE	CALA1	BZ	RA02A			6	H	5		2	SHORT MARSH	20			1				1
9/17/96	C	COYOTE	CALA1	BZ				11	E	5		2	MESIC MIXED GRASSLAND	322			1				1
9/18/96	C	COYOTE	CALA1	BZ	RS02B			15	K	5		2	TALL UPLAND SHRUBLAND	230			1			1	
10/8/96	C	COYOTE	CALA1	BZ				5	H	5		4	MESIC MIXED GRASSLAND	322	SHORT MARSH	20	2				2
10/8/96	C	COYOTE	CALA1	BZ				6	I	5		4	SHORT MARSH	20			1				1
10/8/96	C	COYOTE	CALA1	BZ				7	J	5		4	SHORT MARSH	20			1				1
10/8/96	C	COYOTE	CALA1	BZ				13	H	5		4	SHORT MARSH	20			1				1
10/8/96	C	COYOTE	CALA1	BZ				15	N	0		4	MESIC MIXED GRASSLAND	322			1				1
10/8/96	C	COYOTE	CALA1	BZ				12	Q	5		4	ANNUAL GRASS/FORB	410			1				1
10/10/96	C	COYOTE	CALA1	BZ	903 PAD	OU2		9	M	1		2	XERIC MIXED GRASSLAND	323			1				1
10/21/96	C	COYOTE	CALA1	BZ	RG03B			2	M			2	XERIC MIXED GRASSLAND	323			1				1

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DATE	TAXN GRUP	SPECIES	SPEC CODE	ADMN AREA	SITE NAME	OP UNIT	ROADNAME	RF GRIDN	RF GRIDE	ACTIV TY1	ACTIV TY2	DAY NGHT	HABITAT	HAB TYPE	HABITAT2	HAB TYPE2	GRUP SIZE	MALES	FEMALES	YOUNG	UNC LASSD
10/22/96	C	COYOTE	CALA1	BZ	BG02B			8	D	5		2	XERIC MIXED GRASSLAND	323			1				1
10/24/96	C	COYOTE	CALA1	BZ	RS02B			15	K	5		2	SHORT MARSH	20			1				1
10/24/96	C	COYOTE	CALA1	BZ	BS03B			5	S	5		2	RIPARIAN SHRUBLAND-AMORPHA	211			1				1
10/24/96	C	COYOTE	CALA1	BZ	POND A-3	OU6		12	O	5		2	RIPARIAN SHRUBLAND-SALIX	212			2				2
10/24/96	C	COYOTE	CALA1	BZ	RS02B			16	K	5		2	TALL UPLAND SHRUBLAND	230			1				1
10/24/96	C	COYOTE	CALA1	BZ	RS02B			17	N	0		2	TALL UPLAND SHRUBLAND	230			1				1
10/24/96	C	COYOTE	CALA1	BZ				6	O	1		2	MESIC MIXED GRASSLAND	322			1				1
11/20/96	C	COYOTE	CALA1	BZ	POND B-2	OU6		10	O	5		2	RECLAIMED GRASSLAND	324	TALL MARSH	30	2				2
11/20/96	C	COYOTE	CALA1	BZ	RA03B			5	I	5		2	SHORT MARSH	20			1				1
11/20/96	C	COYOTE	CALA1	BZ	RS01B			14	F	1		2	TALL UPLAND SHRUBLAND	230			1				1
11/22/96	C	COYOTE	CALA1	BZ	RG03B			3	N	1		2	MESIC MIXED GRASSLAND	322			1				1
11/25/96	C	COYOTE	CALA1	BZ	BG02B			12	D	5		2	XERIC MIXED GRASSLAND	323			2				2
11/26/96	C	COYOTE	CALA1	BZ	POND A-3	OU6		12	O	5		2	RIPARIAN SHRUBLAND-SALIX	212	RECLAIMED GRASSLAND	324	2				2
11/26/96	C	COYOTE	CALA1	BZ				3	L	5		2	MESIC MIXED GRASSLAND	322			1				1
11/26/96	C	COYOTE	CALA1	BZ				12	G	5		2	XERIC MIXED GRASSLAND	323			1				1
11/26/96	C	COYOTE	CALA1	BZ				13	L	5	1	2	XERIC MIXED GRASSLAND	323			1				1
12/18/96	C	COYOTE	CALA1	BZ	RA02A			6	I	5		2	TALL MARSH	30	SHORT MARSH	20	1				1
12/18/96	C	COYOTE	CALA1	BZ	RW03B			7	K	5		2	RIPARIAN WOODLAND	110	RIPARIAN SHRUBLAND-SALIX	212	2				2
12/18/96	C	COYOTE	CALA1	BZ	RW03B			7	G	5		2	RIPARIAN WOODLAND	110	RIPARIAN SHRUBLAND-SALIX	212	2		1		1
12/18/96	C	COYOTE	CALA1	BZ	RA01B			12	F	5		2	SHORT MARSH	20	TALL MARSH	30	1				1
12/18/96	C	COYOTE	CALA1	BZ	RA01B			13	G	5		2	SHORT MARSH	20	TALL MARSH	30	1				1
12/18/96	C	COYOTE	CALA1	BZ	RW03B			7	K	5		2	RIPARIAN WOODLAND	110			1				1
12/18/96	C	COYOTE	CALA1	BZ	RW03B			5	J	5		2	MESIC MIXED GRASSLAND	322			1				1
12/19/96	C	COYOTE	CALA1	BZ	RW01B			13	U	5		2	RIPARIAN WOODLAND	110	RIPARIAN SHRUBLAND-SALIX	212	2		1		1
12/19/96	C	COYOTE	CALA1	BZ	RG03B			4	P	1		2	XERIC MIXED GRASSLAND	323	MESIC MIXED GRASSLAND	322	1				1
12/19/96	C	COYOTE	CALA1	BZ	RA04B			2	T	5	1	2	TALL MARSH	30			1				1
12/19/96	C	COYOTE	CALA1	BZ	BORROW P			6	P	1		2	MESIC MIXED GRASSLAND	322			1				1
12/19/96	C	COYOTE	CALA1	BZ				15	P	5		2	RECLAIMED GRASSLAND	324			1				1
12/19/96	C	COYOTE	CALA1	BZ	BW01R			17	L	1		2	MESIC MIXED GRASSLAND	322	RIPARIAN SHRUBLAND-SALIX	212	1				1
12/20/96	C	COYOTE	CALA1	BZ		OU11		8	D	1		2	XERIC MIXED GRASSLAND	323			1				1
12/20/96	C	COYOTE	CALA1	BZ				10	N	1		2	DISTURBED BARREN LANDS	420			1				1
12/20/96	C	COYOTE	CALA1	BZ				7	I	5		2	SHORT MARSH	20	WET MEADOW	10	1				1
12/23/96	C	COYOTE	CALA1	BZ				13	H	5		2	TALL MARSH	30	WET MEADOW	10	1				1
12/23/96	C	COYOTE	CALA1	BZ				3	M	5		2	MESIC MIXED GRASSLAND	322	SHORT MARSH	20	1				1
12/23/96	C	COYOTE	CALA1	BZ				12	E	5		2	MESIC MIXED GRASSLAND	322	SHORT MARSH	20	1				1
12/23/96	C	COYOTE	CALA1	EA	INLET	OU3	ALKIRE			1		2	IMPOUNDMENT	54			1				1
5/29/96	C	STRIPED SKUNK	MEME1	BZ	E. GATE			9	U	18		2	ROADSIDE/FENCEROW COMPLEX	540			1				1
8/28/96	C	STRIPED SKUNK	MEME1	BZ	RA02B			12	N	1		2	RIPARIAN WOODLAND	110			1				1
9/19/96	C	MINK	MUV11	BZ	BW01R			16	J	1	5	2	RIPARIAN SHRUBLAND-SALIX	212	MESIC MIXED GRASSLAND	322	1				1
5/9/88	C	RACCOON	PRLO1	BZ				16	K	23		2	RIPARIAN SHRUBLAND-SALIX	212			1	1			
6/19/96	C	RACCOON	PRLO1	BZ	POND D-2			2	T	1		2	IMPOUNDMENT MUDFLAT	93			1				1
7/25/96	C	RACCOON	PRLO1	BZ	POND D-2			2	U	1		2	IMPOUNDMENT MUDFLAT	93			2				2
8/5/96	C	RACCOON	PRLO1	IA	CONT YRD			8	L	1		2	DISTURBED BARREN LANDS	420			5		1		4
8/8/96	C	RACCOON	PRLO1	BZ	OU5			7	H	23		2	RIPARIAN SHRUBLAND-SALIX	212			1				1
8/22/96	C	RACCOON	PRLO1	BZ	OU6			11	N	23		2	RIPARIAN SHRUBLAND-SALIX	212			3		1		2
8/29/96	C	RACCOON	PRLO1	BZ	POND D-1			4	S	5		2	IMPOUNDMENT MUDFLAT	93	TALL MARSH	30	1				1
9/25/96	C	RACCOON	PRLO1	BZ				5	O	23		2	RIPARIAN SHRUBLAND-SALIX	212			1	1			
10/8/96	C	RACCOON	PRLO1	BZ	POND D-1			4	R	5		4	TALL MARSH	30			1				1
10/15/96	C	RACCOON	PRLO1	BZ	881 HILL	OU1		8	K	1		2	ANNUAL GRASS/FORB	410	MESIC MIXED GRASSLAND	322	1				1
10/28/96	C	RACCOON	PRLO1	IA	883 BLDG			8	K			2	BUILDING	520			1				1
9/17/96	C	BLACK BEAR	URAM1	BZ	RA01B			12	F	1		2	WET MEADOW	10			1				1
10/9/96	C	BLACK BEAR	URAM1	BZ	LANDFILL	OU7		13	L	1		2	MESIC MIXED GRASSLAND	322	XERIC MIXED GRASSLAND	323	1				1
7/25/96	C	COMMON GRAY FOX	URCI1	BZ	POND D-2			2	U	1		2	IMPOUNDMENT MUDFLAT	93			1				1
10/1/96	H	TIGER SALAMANDER	AMT11	IA	CONT. YRD			8	L	0		2	BUILDING	520			1				1
5/13/96	H	WESTERN PAINTED TURTLE	CHPI1	BZ	LANDFILL	OU7		12	L	0		2	IMPOUNDMENT	54			2				2
5/14/96	H	WESTERN PAINTED TURTLE	CHPI1	BZ				12	P	0		2	ROCK AND GRAVEL PILES	530			1				1
5/30/96	H	WESTERN PAINTED TURTLE	CHPI1	BZ	POND D-1			3	T	0		2	RIPARIAN WOODLAND	110	ROCK AND GRAVEL PILES	530	1				1
5/30/96	H	WESTERN PAINTED TURTLE	CHPI1	BZ	POND D-2			2	U	0		2	IMPOUNDMENT	54			2				2

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DATE	TAXN	SPECIES	SPEC	ADRN	SITE	OP	ROADNAME	RF	RF	ACTIV	ACTIV	DAY	HABITAT	HAB	HABITAT2	HAB	GRUP	MALES	FEMALES	YOUNG	UNC
	GROUP		CODE	AREA	NAME	UNIT		GRIDN	GRIDE	TY1	TY2	NGHT		TYPE		TYPE2	SIZE				LASSD
5/30/96	H	WESTERN PAINTED TURTLE	CHP11	BZ	POND B-1	OU6		10	O	0		2	IMPOUNDMENT MUDFLAT	93			2				2
6/6/96	H	WESTERN PAINTED TURTLE	CHP11	BZ				11	F	2		2	DISTURBED BARREN LANDS	420			1				1
6/11/96	H	WESTERN PAINTED TURTLE	CHP11	BZ	LINDSAY			13	H	0		2	IMPOUNDMENT	54			3				3
7/25/96	H	WESTERN PAINTED TURTLE	CHP11	BZ	POND D-2			2	U	0		2	TALL MARSH	30			3				3
7/25/96	H	WESTERN PAINTED TURTLE	CHP11	BZ	POND D-1			3	R	0		2	IMPOUNDMENT	54			1				1
7/29/96	H	WESTERN PAINTED TURTLE	CHP11	BZ	POND D-1			3	R	0		2	IMPOUNDMENT	54			2				2
8/22/96	H	WESTERN PAINTED TURTLE	CHP11	BZ	POND A-2	OU6		12	O	0		2	IMPOUNDMENT	54			1				1
8/27/96	H	WESTERN PAINTED TURTLE	CHP11	BZ	LINDSAY			13	H	0		2	IMPOUNDMENT	54			7				7
8/28/96	H	WESTERN PAINTED TURTLE	CHP11	BZ	POND B-2	OU6		10	O	0		2	IMPOUNDMENT	54			1				1
8/29/96	H	WESTERN PAINTED TURTLE	CHP11	BZ	POND D-2			2	U	0		2	IMPOUNDMENT	54			1				1
9/5/96	H	WESTERN PAINTED TURTLE	CHP11	BZ	LINDSAY			13	H	0		2	IMPOUNDMENT	54			3				3
9/17/96	H	WESTERN PAINTED TURTLE	CHP11	BZ	RA01B			13	H	0		2	IMPOUNDMENT	54			1				1
10/3/96	H	WESTERN PAINTED TURTLE	CHP11	BZ	POND A-2	OU6		12	O	0		2	IMPOUNDMENT MUDFLAT	93			2				2
10/23/96	H	WESTERN PAINTED TURTLE	CHP11	BZ	POND A-3	OU6		12	O	0		2	IMPOUNDMENT	54			1				1
11/20/96	H	WESTERN PAINTED TURTLE	CHP11	BZ	RA01B			13	H	18		2	SHORT MARSH	20			1				1
4/15/96	H	PRAIRIE RATTLESNAKE	CRV11	BZ				9	R	0		2	MESIC MIXED GRASSLAND	322			2				2
5/8/96	H	PRAIRIE RATTLESNAKE	CRV11	BZ				11	F	1		2	DISTURBED BARREN LANDS	420			1				1
5/14/96	H	PRAIRIE RATTLESNAKE	CRV11	BZ	RS03B			5	S	1		2	ROCK AND GRAVEL PILES	530			1				1
7/25/96	H	PRAIRIE RATTLESNAKE	CRV11	BZ	OLD RANG	OU2		8	O	1		2	RIPARIAN SHRUBLAND-AMORPHA	211			1				1
8/22/96	H	PRAIRIE RATTLESNAKE	CRV11	BZ	RA04B			4	Q	1		2	MESIC MIXED GRASSLAND	322			1				1
8/29/96	H	PRAIRIE RATTLESNAKE	CRV11	BZ				6	P	0		2	WET MEADOW	10			1				1
9/30/96	H	PRAIRIE RATTLESNAKE	CRV11	BZ				6	O	1		2	MESIC MIXED GRASSLAND	322			1				1
10/1/96	H	PRAIRIE RATTLESNAKE	CRV11	BZ				6	O	1		2	MESIC MIXED GRASSLAND	322			2				2
8/27/96	H	SHORT-HORNED LIZARD	PHDO1	BZ	BX01B			10	R	0		2	XERIC MIXED GRASSLAND	323			3				3
3/29/96	H	BOREAL CHORUS FROG	PSTR1	BZ	RS02B			17	N	6		2	NATURAL POND	51			2				2
4/18/96	H	BOREAL CHORUS FROG	PSTR1	BZ	SID			7	J	6		2	DITCH POOL	49	TALL MARSH	30	2				
4/25/96	H	BOREAL CHORUS FROG	PSTR1	BZ	RS03B			4	T	6		2	STREAM RIFFLE	41			5				5
4/25/96	H	BOREAL CHORUS FROG	PSTR1	BZ	RS03B			5	R	6		2	NATURAL POND	51			1				1
4/25/96	H	BOREAL CHORUS FROG	PSTR1	BZ	POND D-2			2	T	6		2	IMPOUNDMENT	54			10				10
4/30/96	H	BOREAL CHORUS FROG	PSTR1	BZ	RA01B			13	G	6		2	TALL MARSH	30			4				4
4/30/96	H	BOREAL CHORUS FROG	PSTR1	BZ	RA01B			12	G	6		2	TALL MARSH	30			10				10
4/30/96	H	BOREAL CHORUS FROG	PSTR1	BZ	RS02B			17	N	6		2	INTERMITTENT STREAM POOL	43			6				6
4/30/96	H	BOREAL CHORUS FROG	PSTR1	BZ	BA01A			7	K	6		2	DITCH POOL	49			2				2
4/30/96	H	BOREAL CHORUS FROG	PSTR1	BZ	RS01B			15	G	6		2	TALL UPLAND SHRUBLAND	230			6				6
4/30/96	H	BOREAL CHORUS FROG	PSTR1	BZ	POND A-1	OU6		12	N	6		2	IMPOUNDMENT	54			6				6
5/1/96	H	BOREAL CHORUS FROG	PSTR1	BZ	POND A-2	OU6		12	O	6		2	IMPOUNDMENT	54			12				12
5/1/96	H	BOREAL CHORUS FROG	PSTR1	BZ	POND B-3	OU6		10	O	6		2	IMPOUNDMENT	54			4				4
5/1/96	H	BOREAL CHORUS FROG	PSTR1	BZ	POND D-2			13	S	6		2	INTERMITTENT STREAM POOL	43			1				1
5/13/96	H	BOREAL CHORUS FROG	PSTR1	BZ	RW01B			7	K	6		2	DITCH POOL	49			5				5
5/13/96	H	BOREAL CHORUS FROG	PSTR1	BZ	SID			7	K	6		2	DITCH POOL	49			8				8
5/13/96	H	BOREAL CHORUS FROG	PSTR1	BZ	POND A-2	OU6		12	M	6		2	IMPOUNDMENT	54			7				7
5/13/96	H	BOREAL CHORUS FROG	PSTR1	BZ	LANDFILL	OU7		13	L	6		2	IMPOUNDMENT	54			8				8
5/13/96	H	BOREAL CHORUS FROG	PSTR1	BZ	POND D-2			2	T	6		2	IMPOUNDMENT	54			1				1
5/13/96	H	BOREAL CHORUS FROG	PSTR1	BZ	RW03B			7	G	6		2	INTERMITTENT STREAM POOL	43			8				8
5/14/96	H	BOREAL CHORUS FROG	PSTR1	BZ				3	K	17		2	MESIC MIXED GRASSLAND	322	NATURAL POND	51	4				4
5/28/96	H	BOREAL CHORUS FROG	PSTR1	BZ	RA01B			13	G	6		2	SHORT MARSH	20	TALL MARSH	30	14				14
5/29/96	H	BOREAL CHORUS FROG	PSTR1	BZ	RA01B			12	F	6		2	SHORT MARSH	20	TALL MARSH	30	14				14
5/29/96	H	BOREAL CHORUS FROG	PSTR1	BZ	RA01B			11	E	6		2	SHORT MARSH	20			10				10
5/29/96	H	BOREAL CHORUS FROG	PSTR1	BZ	LINDSAY2			11	E	6		2	IMPOUNDMENT	54			15				15
5/29/96	H	BOREAL CHORUS FROG	PSTR1	BZ	RS02B			17	N	6		2	INTERMITTENT STREAM POOL	43			6				6
5/30/96	H	BOREAL CHORUS FROG	PSTR1	BZ	POND A-1	OU6		12	N	6		2	IMPOUNDMENT	54			5				5
5/30/96	H	BOREAL CHORUS FROG	PSTR1	BZ	POND A-3	OU6		12	P	6		2	IMPOUNDMENT	54			4				4
5/30/96	H	BOREAL CHORUS FROG	PSTR1	BZ	POND B-5	OU6		11	O	6		2	IMPOUNDMENT	54			8				8
5/30/96	H	BOREAL CHORUS FROG	PSTR1	BZ	POND B-3	OU6		10	O	6		2	IMPOUNDMENT	54			10				10
5/30/96	H	BOREAL CHORUS FROG	PSTR1	BZ	POND B-2	OU6		10	O	6		2	IMPOUNDMENT	54			15				15
5/30/96	H	BOREAL CHORUS FROG	PSTR1	BZ	POND B-1	OU6		10	O	6		2	IMPOUNDMENT	54			8				8
5/30/96	H	BOREAL CHORUS FROG	PSTR1	BZ	RS03B			5	S	6		2	RIPARIAN SHRUBLAND-AMORPHA	211			3				3
5/30/96	H	BOREAL CHORUS FROG	PSTR1	BZ	RA02B	OU6		12	O	6		2	RIPARIAN SHRUBLAND-SALIX	212			4				4
5/30/96	H	BOREAL CHORUS FROG	PSTR1	BZ	RA02B	OU6		12	P	6		2	RIPARIAN SHRUBLAND-SALIX	212			4				4

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DATE	TAXN	SPECIES	SPEC	ADMN	SITE	OP	ROADNAME	RF	RF	ACTIV	ACTIV	DAY	HABITAT	HAB	HABITAT2	HAB	GRUP	MALES	FEMALES	YOUNG	UNC
	GRUP		CODE	AREA	NAME	UNIT		GRIDN	GRIDE	TY1	TY2	NGHT		TYPE		TYPE2	SIZE				LASSD
5/30/96	H	BOREAL CHORUS FROG	PSTR1	IA	RG01A	OU1		8	L	6		2	RECLAIMED GRASSLAND	324			5	5			
6/3/96	H	BOREAL CHORUS FROG	PSTR1	BZ	BA01R			12	F	6		2	INTERMITTENT STREAM POOL	43			2	2			
6/3/96	H	BOREAL CHORUS FROG	PSTR1	BZ	BA01R			11	H	6		2	INTERMITTENT STREAM POOL	43			2	2			
6/4/96	H	BOREAL CHORUS FROG	PSTR1	BZ	BG02B			10	D	6		2	SHORT MARSH	20			2	2			
8/22/96	H	BULLFROG	RACA1	BZ	POND D-2			2	T	0		2	IMPOUNDMENT	54			1				1
10/23/96	H	BULLFROG	RACA1	BZ	POND B-5	OU6		11	P	0		2	SHORT MARSH	20			1				1
6/19/96	H	NORTHERN LEOPARD FROG	RAPH1	BZ	BW01R			17	K	0		2	MESIC MIXED GRASSLAND	322			1				1
6/25/96	H	NORTHERN LEOPARD FROG	RAPH1	BZ	BW01R			16	K	0		2	PERSISTENT STREAM POOL	46			1				1
7/22/96	H	WESTERN PLAINS GARTER SNAKE	THRA1	BZ	RW02B			4	N	5		2	INTERMITTENT STREAM POOL	43			1				1
7/22/96	H	RED-SIDED GARTER SNAKE	THSI1	BZ	RW02B			4	N	5		2	INTERMITTENT STREAM POOL	43			1				1
4/17/96	M	BLACK-TAILED PRAIRIE DOG	CYLU1	EA	NEST	OU3	100TH			5		2	MESIC MIXED GRASSLAND	322			5				5
2/2/96	M	COMMON PORCUPINE	ERDO1	BZ				13	G	1		2	MESIC MIXED GRASSLAND	322			1				1
4/22/96	M	COMMON PORCUPINE	ERDO1	BZ	LOBELIA			15	K	0		2	TALL UPLAND SHRUBLAND	230			1				1
4/23/96	M	COMMON PORCUPINE	ERDO1	BZ	L. RANCH			13	G	1		2	MESIC MIXED GRASSLAND	322			1				1
12/18/96	M	COMMON PORCUPINE	ERDO1	BZ	LINDSAY			13	G	1		2	MESIC MIXED GRASSLAND	322	BUILDING	520	1				1
12/18/96	M	COMMON PORCUPINE	ERDO1	BZ	BS02B			13	H	1	5	2	TALL UPLAND SHRUBLAND	230			1				1
12/18/96	M	JACKRABBIT	LEP1	BZ				11	E	1		2	ANNUAL GRASS/FORB	410	SHORT MARSH	20	1				1
12/18/96	M	JACKRABBIT	LEP1	BZ	RA01B			11	E	1		2	DISTURBED BARREN LANDS	420			1				1
12/20/96	M	JACKRABBIT	LEP1	BZ	CLAYPIT	OU11		9	D	1		2	XERIC MIXED GRASSLAND	323			1				1
1/16/96	M	MUSKRAT	ONZI1	BZ	SID			7	L	1		2	TALL MARSH	30			1				1
3/29/96	M	MUSKRAT	ONZI1	BZ	POND A-2	OU6		12	O	1		2	IMPOUNDMENT	54			1				1
5/1/96	M	MUSKRAT	ONZI1	BZ	POND A-2	OU6		12	O	1	5	2	IMPOUNDMENT	54			1				1
5/21/96	M	MUSKRAT	ONZI1	BZ	POND A-2	OU6		10	O	1	5	2	IMPOUNDMENT	54			1				1
5/30/96	M	MUSKRAT	ONZI1	BZ	POND A-2	OU6		12	O	1		2	IMPOUNDMENT	54			3			1	2
5/30/96	M	MUSKRAT	ONZI1	BZ	POND B-2	OU6		10	O	1		2	IMPOUNDMENT	54			1				1
6/11/96	M	MUSKRAT	ONZI1	BZ	LINDSAY			13	H	1	5	2	IMPOUNDMENT	54			1				1
6/17/96	M	MUSKRAT	ONZI1	BZ	LINDSAY			13	H	1	5	2	IMPOUNDMENT	54			1				1
7/22/96	M	MUSKRAT	ONZI1	BZ	POND B-2	OU6		10	O	1		2	IMPOUNDMENT	54			2				2
8/22/96	M	MUSKRAT	ONZI1	BZ	POND B-3	OU6		10	O	1		2	IMPOUNDMENT	54			1				1
8/22/96	M	MUSKRAT	ONZI1	BZ	POND D-1			3	R	1		2	IMPOUNDMENT	54			1				1
8/28/96	M	MUSKRAT	ONZI1	BZ	POND B-4	OU6		10	P	1		2	IMPOUNDMENT	54			2				2
8/28/96	M	MUSKRAT	ONZI1	BZ	POND B-1	OU6		10	O	1		2	IMPOUNDMENT	54			1				1
9/5/96	M	MUSKRAT	ONZI1	BZ	POND B-4	OU6		10	P	1		2	IMPOUNDMENT	54			1				1
10/23/96	M	MUSKRAT	ONZI1	BZ	POND A-1	OU6		12	N	1		2	IMPOUNDMENT	54			1				1
11/26/96	M	MUSKRAT	ONZI1	BZ	POND B-4	OU6		10	P	5		2	IMPOUNDMENT	54			1				1
11/20/96	M	EASTERN FOX SQUIRREL	SCNI1	BZ	RS01B			13	F	1		2	RIPARIAN WOODLAND	110	TALL UPLAND SHRUBLAND	230	1				1
1/31/96	M	DESERT COTTONTAIL	SYAU1	BZ	RG03B			2	L	1		2	XERIC MIXED GRASSLAND	323			1				1
2/28/96	M	DESERT COTTONTAIL	SYAU1	BZ	RG01A	OU1		8	M	1		2	RECLAIMED GRASSLAND	324			1				1
2/29/96	M	DESERT COTTONTAIL	SYAU1	BZ	RA02B			12	Q	0		2	ANNUAL GRASS/FORB	410			1				1
4/25/96	M	DESERT COTTONTAIL	SYAU1	BZ	CONT YRD			8	L	0		2	DISTURBED BARREN LANDS	420			4				4
4/26/96	M	DESERT COTTONTAIL	SYAU1	IA	CONT.YRD			8	M	0		2	ANNUAL GRASS/FORB	410			4				4
5/1/96	M	DESERT COTTONTAIL	SYAU1	BZ	CONT.YRD			8	M	0		2	DISTURBED BARREN LANDS	420			4				4
5/9/96	M	DESERT COTTONTAIL	SYAU1	BZ	CONT.YRD			8	M	0		2	DISTURBED BARREN LANDS	420			5				5
5/13/96	M	DESERT COTTONTAIL	SYAU1	BZ	LANDFILL	OU7		12	L	1		2	MESIC MIXED GRASSLAND	322			1				1
5/13/96	M	DESERT COTTONTAIL	SYAU1	BZ		OU2		8	N	0		2	MESIC MIXED GRASSLAND	322			1				1
5/13/96	M	DESERT COTTONTAIL	SYAU1	BZ	LANDFILL	OU7		13	K	1		2	XERIC MIXED GRASSLAND	323			1				1
5/13/96	M	DESERT COTTONTAIL	SYAU1	IA	CONT.YRD			8	M	0		2	DISTURBED BARREN LANDS	420			4				4
5/13/96	M	DESERT COTTONTAIL	SYAU1	BZ				7	N	0		2	DISTURBED BARREN LANDS	420			1				1
5/16/96	M	DESERT COTTONTAIL	SYAU1	BZ	CONT.YRD			8	M	0		2	DISTURBED BARREN LANDS	420			2				2
5/30/96	M	DESERT COTTONTAIL	SYAU1	BZ	RA02B	OU6		10	O	0		2	ROCK AND GRAVEL PILES	530			1				1
5/30/96	M	DESERT COTTONTAIL	SYAU1	IA	RG01A	OU1		8	M	0		2	ROCK AND GRAVEL PILES	530			2				2
5/30/96	M	DESERT COTTONTAIL	SYAU1	BZ	RA02B	OU6		12	O	0		2	ROADSIDE/FENCEROW COMPLEX	540			1				1
6/3/96	M	DESERT COTTONTAIL	SYAU1	BZ				15	O	0		2	MESIC MIXED GRASSLAND	322			1				1
6/10/96	M	DESERT COTTONTAIL	SYAU1	IA	RG01A			8	N	0		2	RECLAIMED GRASSLAND	324			1				1
6/24/96	M	DESERT COTTONTAIL	SYAU1	BZ	BX01B			10	Q	0		2	XERIC MIXED GRASSLAND	323			1			1	
7/18/96	M	DESERT COTTONTAIL	SYAU1	BZ	RG01A	OU1		8	M	0		2	RECLAIMED GRASSLAND	324			1				1
7/22/96	M	DESERT COTTONTAIL	SYAU1	BZ	RA02B	OU6		10	O	0		2	RIPARIAN SHRUBLAND-SALIX	212			1				1
7/22/96	M	DESERT COTTONTAIL	SYAU1	BZ	RA02B	OU6		12	Q	0		2	ANNUAL GRASS/FORB	410			1			1	

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DATE	TAXN	SPECIES	SPEC	ADMN	SITE	OP	ROADNAME	RF	RF	ACTIV	ACTIV	DAY	HABITAT	HAB	HABITAT2	HAB	GRUP	MALES	FEMALES	YOUNG	UNC
	GRUP		CODE	AREA	NAME	UNIT		GRIDN	GRIDE	TY1	TY2	NGHT		TYPE		TYPE2	SIZE				LASSD
7/22/96	M	DESERT COTTONTAIL	SYAU1	BZ	RA02B	OU6		12	O	0		2	ANNUAL GRASS/FORB	410			2				2
7/22/96	M	DESERT COTTONTAIL	SYAU1	BZ	RA02B	OU6		10	O	0		2	ANNUAL GRASS/FORB	410			1			1	
7/25/96	M	DESERT COTTONTAIL	SYAU1	BZ	RW01A			7	N	0		2	ANNUAL GRASS/FORB	410			1				1
7/29/96	M	DESERT COTTONTAIL	SYAU1	BZ	CONT.YRD			8	L	0		2	ROADSIDE/FENCEROW COMPLEX	540			8				8
7/29/96	M	DESERT COTTONTAIL	SYAU1	BZ	850 BLDG	OU1		8	K	0		2	ROADSIDE/FENCEROW COMPLEX	540			2				2
7/29/96	M	DESERT COTTONTAIL	SYAU1	BZ				14	Q	1		2	MESIC MIXED GRASSLAND	322	ANNUAL GRASS/FORB	410	1				1
7/30/96	M	DESERT COTTONTAIL	SYAU1	BZ				7	N	0		2	ANNUAL GRASS/FORB	410			2				2
7/30/96	M	DESERT COTTONTAIL	SYAU1	BZ				13	Q	0		2	ANNUAL GRASS/FORB	410			3				3
8/22/96	M	DESERT COTTONTAIL	SYAU1	BZ				8	L	0		2	ANNUAL GRASS/FORB	410			9				9
8/22/96	M	DESERT COTTONTAIL	SYAU1	BZ	CONT.YRD			11	J	0		2	DISTURBED BARREN LANDS	420			6				6
8/22/96	M	DESERT COTTONTAIL	SYAU1	BZ	PU&D			10	O	0		2	DISTURBED BARREN LANDS	420			2				2
8/28/96	M	DESERT COTTONTAIL	SYAU1	BZ	RA02B			8	N	0		2	MESIC MIXED GRASSLAND	322			3				3
8/28/96	M	DESERT COTTONTAIL	SYAU1	BZ	RG01A			7	P	0		2	DISTURBED BARREN LANDS	420			1				1
8/28/96	M	DESERT COTTONTAIL	SYAU1	BZ	RW01A			12	O	0		2	ROCK AND GRAVEL PILES	530			1				1
8/28/96	M	DESERT COTTONTAIL	SYAU1	BZ	RA02B			12	Q	0		2	ROADSIDE/FENCEROW COMPLEX	540			2				2
8/28/96	M	DESERT COTTONTAIL	SYAU1	BZ	RA02B			12	Q	0		2	ROADSIDE/FENCEROW COMPLEX	540			1				1
8/28/96	M	DESERT COTTONTAIL	SYAU1	BZ	RG02B			17	P	0		2	XERIC MIXED GRASSLAND	323			1				1
9/18/96	M	DESERT COTTONTAIL	SYAU1	BZ	RA02B			12	Q	0		2	DISTURBED BARREN LANDS	420			1				1
9/25/96	M	DESERT COTTONTAIL	SYAU1	BZ	BR02A			8	M	1		2	RECLAIMED GRASSLAND	324			1				1
9/30/96	M	DESERT COTTONTAIL	SYAU1	IA	CONT.YRD			8	L	4		2	ANNUAL GRASS/FORB	410			4				4
10/2/96	M	DESERT COTTONTAIL	SYAU1	BZ	A-1 TENT			13	Q	0		2	ANNUAL GRASS/FORB	410			3				3
10/2/96	M	DESERT COTTONTAIL	SYAU1	IA	CONT.YRD			8	L	0		2	BUILDING	520			4				4
10/3/96	M	DESERT COTTONTAIL	SYAU1	BZ	A-4 TENT			13	Q	1		2	ANNUAL GRASS/FORB	410			3				3
10/3/96	M	DESERT COTTONTAIL	SYAU1	IA	CONT.YRD			8	L	0		2	ANNUAL GRASS/FORB	410			2				2
10/7/96	M	DESERT COTTONTAIL	SYAU1	BZ				15	N	1		4	ANNUAL GRASS/FORB	410			1				1
10/8/96	M	DESERT COTTONTAIL	SYAU1	BZ				1	O	1		4	DISTURBED BARREN LANDS	420	XERIC MIXED GRASSLAND	323	1				1
10/8/96	M	DESERT COTTONTAIL	SYAU1	BZ				1	O	1		4	MESIC MIXED GRASSLAND	322			1				1
10/8/96	M	DESERT COTTONTAIL	SYAU1	IA	CONT.YRD			8	L	0		2	ANNUAL GRASS/FORB	410			3				3
10/8/96	M	DESERT COTTONTAIL	SYAU1	BZ				14	L	1		4	ANNUAL GRASS/FORB	410			1				1
10/8/96	M	DESERT COTTONTAIL	SYAU1	BZ				11	J	1		4	DISTURBED BARREN LANDS	420			1				1
10/8/96	M	DESERT COTTONTAIL	SYAU1	BZ				12	O	0		4	DISTURBED BARREN LANDS	420			1				1
10/8/96	M	DESERT COTTONTAIL	SYAU1	BZ				11	H	1		2	ANNUAL GRASS/FORB	410	XERIC MIXED GRASSLAND	323	1				1
10/10/96	M	DESERT COTTONTAIL	SYAU1	BZ				11	H	1		2	ANNUAL GRASS/FORB	410			3				3
10/21/96	M	DESERT COTTONTAIL	SYAU1	IA	CONT.YRD			8	L	0		2	ANNUAL GRASS/FORB	410			2				2
10/21/96	M	DESERT COTTONTAIL	SYAU1	IA	CONT.YRD			8	L	0		2	ANNUAL GRASS/FORB	410			3				3
10/22/96	M	DESERT COTTONTAIL	SYAU1	IA	CONT.YRD			8	L	0		2	ANNUAL GRASS/FORB	410			3				3
10/28/96	M	DESERT COTTONTAIL	SYAU1	IA	CONT.YRD			8	L	0		2	ANNUAL GRASS/FORB	410			3				3
10/28/96	M	DESERT COTTONTAIL	SYAU1	IA	CONT.YRD			8	M	0		2	ANNUAL GRASS/FORB	410			3				3
10/30/96	M	DESERT COTTONTAIL	SYAU1	IA	850 BLDG			8	K	0		2	ANNUAL GRASS/FORB	410			5				5
10/30/96	M	DESERT COTTONTAIL	SYAU1	IA	CONT.YRD			8	M	0		2	ANNUAL GRASS/FORB	410			4				4
10/30/96	M	DESERT COTTONTAIL	SYAU1	IA	CONT.YRD			8	M	0		2	ANNUAL GRASS/FORB	410			2				2
10/30/96	M	DESERT COTTONTAIL	SYAU1	BZ	RW01A			7	P	1		2	ROCK AND GRAVEL PILES	530			1				1
11/22/96	M	DESERT COTTONTAIL	SYAU1	BZ	RA02B	OU6		12	P	1		2	RIPARIAN SHRUBLAND-SALIX	212	TALL MARSH	30	1				1
12/20/96	M	DESERT COTTONTAIL	SYAU1	BZ	RA02B	OU6		10	O	0		2	MESIC MIXED GRASSLAND	322			1				1
12/20/96	M	DESERT COTTONTAIL	SYAU1	BZ	SID ROAD	OU2		8	O	1		2	RECLAIMED GRASSLAND	324	ANNUAL GRASS/FORB	410	1				1
12/23/96	M	DESERT COTTONTAIL	SYAU1	BZ	SID ROAD	OU2		8	O	1		2	RECLAIMED GRASSLAND	324	ANNUAL GRASS/FORB	410	1				1
5/10/96	M	PREBLE'S M. JUMPING MOUSE	ZAHU1	BZ	Z96-09A		ROCK CK	17	L	22		2	RIPARIAN SHRUBLAND-SALIX	212			1	1			
5/14/96	M	PREBLE'S M. JUMPING MOUSE	ZAHU1	BZ	LRC-1		ROCK CK	17	L	22		2	RIPARIAN SHRUBLAND-SALIX	212			110	1	1		
5/14/96	M	PREBLE'S M. JUMPING MOUSE	ZAHU1	BZ	Z96-05A	OU6	WALNUT CK	11	M	22		2	RIPARIAN SHRUBLAND-SALIX	212			110	1	1		
5/14/96	M	PREBLE'S M. JUMPING MOUSE	ZAHU1	BZ	Z96-43A	OU6	WALNUT CK	11	P	22		2	TALL UPLAND SHRUBLAND	230	MESIC MIXED GRASSLAND	322	1	1			
5/14/96	M	PREBLE'S M. JUMPING MOUSE	ZAHU1	BZ	Z96-43A	OU6	WALNUT CK	11	P	22		2	TALL UPLAND SHRUBLAND	230	MESIC MIXED GRASSLAND	322	1	1			
5/14/96	M	PREBLE'S M. JUMPING MOUSE	ZAHU1	BZ	Z96-05A	OU6	WALNUT CK	11	M	22		2	RIPARIAN SHRUBLAND-SALIX	212			110	1	1		
5/15/96	M	PREBLE'S M. JUMPING MOUSE	ZAHU1	BZ	LRC-1		ROCK CK	17	L	22		2	RIPARIAN SHRUBLAND-SALIX	212			1	1			
5/15/96	M	PREBLE'S M. JUMPING MOUSE	ZAHU1	BZ	Z96-43A	OU6	WALNUT CK	11	P	22		2	TALL UPLAND SHRUBLAND	230	MESIC MIXED GRASSLAND	322	1	1			
5/15/96	M	PREBLE'S M. JUMPING MOUSE	ZAHU1	BZ	Z96-05A	OU6	WALNUT CK	11	M	22		2	RIPARIAN SHRUBLAND-SALIX	212			110	1	1		
5/16/96	M	PREBLE'S M. JUMPING MOUSE	ZAHU1	BZ	LRC-1		ROCK CK	17	L	22		2	RIPARIAN SHRUBLAND-SALIX	212			1	1			
5/21/96	M	PREBLE'S M. JUMPING MOUSE	ZAHU1	BZ	WBP-2	OU6	WALNUT CK	11	P	22		2	TALL UPLAND SHRUBLAND	230	RIPARIAN SHRUBLAND-SALIX	212	1	1			
5/21/96	M	PREBLE'S M. JUMPING MOUSE	ZAHU1	BZ	WBP-2	OU6	WALNUT CK	11	P	22		2	TALL UPLAND SHRUBLAND	230	RIPARIAN SHRUBLAND-SALIX	212	1	1			
5/21/96	M	PREBLE'S M. JUMPING MOUSE	ZAHU1	BZ	WBP-2	OU6	WALNUT CK	11	P	22		2	TALL UPLAND SHRUBLAND	230	RIPARIAN SHRUBLAND-SALIX	212	1	1			
5/21/96	M	PREBLE'S M. JUMPING MOUSE	ZAHU1	BZ	WBP-2	OU6	WALNUT CK	11	P	22		2	TALL UPLAND SHRUBLAND	230	RIPARIAN SHRUBLAND-SALIX	212	1	1			
5/21/96	M	PREBLE'S M. JUMPING MOUSE	ZAHU1	BZ	WBP-2	OU6	WALNUT CK	11	P	22		2	TALL UPLAND SHRUBLAND	230	RIPARIAN SHRUBLAND-SALIX	212	1	1			
5/21/96	M	PREBLE'S M. JUMPING MOUSE	ZAHU1	BZ	WBP-2	OU6	WALNUT CK	11	P	22		2	TALL UPLAND SHRUBLAND	230	RIPARIAN SHRUBLAND-SALIX	212	1	1			
5/21/96	M	PREBLE'S M. JUMPING MOUSE	ZAHU1	BZ	WBP-2	OU6	WALNUT CK	11	P	22		2	TALL UPLAND SHRUBLAND	230	RIPARIAN SHRUBLAND-SALIX	212	1	1			
5/21/96	M	PREBLE'S M. JUMPING MOUSE	ZAHU1	BZ	WBP-2	OU6	WALNUT CK	11	P	22		2	TALL UPLAND SHRUBLAND	230	RIPARIAN SHRUBLAND-SALIX	212	1	1			
5/21/96	M	PREBLE'S M. JUMPING MOUSE	ZAHU1	BZ	WBP-2	OU6	WALNUT CK	11	P	22		2	TALL UPLAND SHRUBLAND	230	RIPARIAN SHRUBLAND-SALIX	212	1	1			
5/21/96	M	PREBLE'S M. JUMPING MOUSE	ZAHU1	BZ	WBP-2	OU6	WALNUT CK	11	P	22		2	TALL UPLAND SHRUBLAND	230	RIPARIAN SHRUBLAND-SALIX	212	1	1			
5/21/96	M	PREBLE'S M. JUMPING MOUSE	ZAHU1	BZ	WBP-2	OU6	WALNUT CK	11	P	22		2	TALL UPLAND SHRUBLAND	230	RIPARIAN SHRUBLAND-SALIX	212	1	1			
5/21/96	M	PREBLE'S M. JUMPING MOUSE	ZAHU1	BZ	WBP-2	OU6	WALNUT CK	11	P	22		2	TALL UPLAND SHRUBLAND	230	RIPARIAN SHRUBLAND-SALIX	212	1	1			
5/21/96	M	PREBLE'S M. JUMPING MOUSE	ZAHU1	BZ	WBP-2	OU6	WALNUT CK	11	P	22		2	TALL UPLAND SHRUBLAND	230	RIPARIAN SHRUBLAND-SALIX	212	1	1			
5/21/96	M	PREBLE'S M. JUMPING MOUSE	ZAHU1	BZ	WBP-2	OU6	WALNUT CK	11	P	22		2	TALL UPLAND SHRUBLAND	230	RIPARIAN SHRUBLAND-SALIX	212	1	1			
5/21/96	M	PREBLE'S M. JUMPING MOUSE	ZAHU1	BZ	WBP-2	OU6	WALNUT CK	11	P	22		2	TALL UPLAND SHRUBLAND	230	RIPARIAN SHRUBLAND-SALIX	212	1	1			
5/21/96	M	PREBLE'S M. JUMPING MOUSE	ZAHU1	BZ	WBP-2	OU6	WALNUT CK	11	P	22		2	TALL UPLAND SHRUBLAND	230	RIPARIAN SHRUBLAND-SALIX	212	1	1			
5/21/96	M	PREBLE'S M. JUMPING MOUSE	ZAHU1	BZ	WBP-2	OU6	WALNUT CK	11	P	22		2	TALL UPLAND SHRUBLAND	230	RIPARIAN SHRUBLAND-SALIX	212	1	1			
5/21/96	M	PREBLE'S M. JUMPING MOUSE	ZAHU1	BZ	WBP-2	OU6	WALNUT CK	11	P	22		2	TALL UPLAND SHRUBLAND	230	RIPARIAN SHRUBLAND-SALIX	212	1	1			
5/21/96	M	PREBLE'S M. JUMPING MOUSE	ZAHU1	BZ	WBP-2	OU6	WALNUT CK	11	P	22		2	TALL UPLAND SHRUBLAND	230	RIPARIAN SHRUBLAND-SALIX	212	1	1			
5/21/96	M	PREBLE'S M. JUMPING MOUSE	ZAHU1	BZ	WBP-2	OU6	WALNUT CK	11	P	22		2	TALL UPLAND SHRUBLAND	230	RIPARIAN SHRUBLAND-SALIX	212	1	1			
5/21/96	M	PREBLE'S M. JUMPING MOUSE	ZAHU1	BZ	WBP-2	OU6	WALNUT CK	11	P	22		2	TALL UPLAND SHRUBLAND	230	RIPARIAN SHRUBLAND-SALIX	212	1	1			
5/21/96	M	PREBLE'S M. JUMPING MOUSE	ZAHU1	BZ	WBP-2	OU6	WALNUT CK	11	P	22											

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DATE	TAXN	SPECIES	SPEC	ADMN	SITE	OP	ROADNAME	RF	RF	ACTIV	ACTIV	DAY	HABITAT	HAB	HABITAT2	HAB	GRUP	MALES	FEMALES	YOUNG	UNC
	GROUP		CODE	AREA	NAME	UNIT		GRIDN	GRIDE	TY1	TY2	NGHT		TYPE		TYPE2	SIZE				LASSD
5/22/96	M	PREBLE'S M. JUMPING MOUSE	ZAHU1	BZ	WBP-2	OU6	WALNUT CK	11	P	22		2	RIPARIAN SHRUBLAND-SALIX	212		230	1		1		
5/22/96	M	PREBLE'S M. JUMPING MOUSE	ZAHU1	BZ	WBP-2	OU6	WALNUT CK	11	P	22		2	RIPARIAN SHRUBLAND-SALIX	212		230	1	1			
5/23/96	M	PREBLE'S M. JUMPING MOUSE	ZAHU1	BZ	LRC-1		ROCK CK	17	L	22		2	RIPARIAN SHRUBLAND-SALIX	212			1		1		
5/23/96	M	PREBLE'S M. JUMPING MOUSE	ZAHU1	BZ	LRC-1		ROCK CK	17	L	22		2	RIPARIAN SHRUBLAND-SALIX	212			1		1		
5/23/96	M	PREBLE'S M. JUMPING MOUSE	ZAHU1	BZ	LRC-1		ROCK CK	17	L	22		2	RIPARIAN SHRUBLAND-SALIX	212			1		1		
5/23/96	M	PREBLE'S M. JUMPING MOUSE	ZAHU1	BZ	LRC-1		ROCK CK	17	L	22		2	RIPARIAN SHRUBLAND-SALIX	212			1		1		
5/23/96	M	PREBLE'S M. JUMPING MOUSE	ZAHU1	BZ	LRC-1		ROCK CK	17	L	22		2	RIPARIAN SHRUBLAND-SALIX	212			1		1		
5/24/96	M	PREBLE'S M. JUMPING MOUSE	ZAHU1	BZ	WBP-2	OU6	WALNUT CK	11	P	22		2	RIPARIAN SHRUBLAND-SALIX	212	TALL UPLAND SHRUBLAND	230	1	1			
5/24/96	M	PREBLE'S M. JUMPING MOUSE	ZAHU1	BZ	WBP-2	OU6	WALNUT CK	11	P	22		2	RIPARIAN SHRUBLAND-SALIX	212	TALL UPLAND SHRUBLAND	230	1		1		
5/24/96	M	PREBLE'S M. JUMPING MOUSE	ZAHU1	BZ	WBP-2	OU6	WALNUT CK	11	P	22		2	RIPARIAN SHRUBLAND-SALIX	212	TALL UPLAND SHRUBLAND	230	1	1			
5/24/96	M	PREBLE'S M. JUMPING MOUSE	ZAHU1	BZ	WBP-2	OU6	WALNUT CK	11	P	22		2	RIPARIAN SHRUBLAND-SALIX	212	TALL UPLAND SHRUBLAND	230	1	1			
5/24/96	M	PREBLE'S M. JUMPING MOUSE	ZAHU1	BZ	LRC-1		ROCK CK	17	L	22		2	RIPARIAN SHRUBLAND-SALIX	212			1		1		
5/24/96	M	PREBLE'S M. JUMPING MOUSE	ZAHU1	BZ	LRC-1		ROCK CK	17	L	22		2	RIPARIAN SHRUBLAND-SALIX	212			1		1		
5/28/96	M	PREBLE'S M. JUMPING MOUSE	ZAHU1	BZ				17	L	1		2	RIPARIAN SHRUBLAND-SALIX	212	SHORT UPLAND SHRUBLAND	220	1				1
8/8/96	M	PREBLE'S M. JUMPING MOUSE	ZAHU1	BZ	Z96-50A		WOMAN CK	7	K	22		2	RIPARIAN SHRUBLAND-SALIX	212			1			1	
8/7/96	M	PREBLE'S M. JUMPING MOUSE	ZAHU1	BZ	Z96-50A		WOMAN CK	7	K	22		2	RIPARIAN SHRUBLAND-SALIX	212			1				
8/7/96	M	PREBLE'S M. JUMPING MOUSE	ZAHU1	BZ	Z96-50A		WOMAN CK	7	K	22		2	RIPARIAN SHRUBLAND-SALIX	212			1				
4/23/96	R	COOPERS HAWK	ACCO1	BZ				11	M			2	RIPARIAN WOODLAND	110			1				1
10/22/96	R	COOPERS HAWK	ACCO1	BZ	BW01B			13	S	0		2	RIPARIAN WOODLAND	110			1				1
7/22/96	R	NORTHERN GOSHAWK	ACGE1	BZ	RW02B			4	K	0		2	RIPARIAN WOODLAND	110			1				1
9/5/96	R	SHARP-SHINNED HAWK	ACST1	BZ				6	F	5		2	MESIC MIXED GRASSLAND	322			1				1
1/9/96	R	GOLDEN EAGLE	AOCH1	BZ	BW01A	OU1		7	K	5		2	RIPARIAN WOODLAND	110	RIPARIAN SHRUBLAND-SALIX	212	1				1
1/31/96	R	GOLDEN EAGLE	AOCH1	BZ				10	Q	0		2	MESIC MIXED GRASSLAND	322	XERIC MIXED GRASSLAND	323	1				1
2/28/96	R	GOLDEN EAGLE	AOCH1	BZ	RS01B			15	F	0		2	TALL UPLAND SHRUBLAND	230			1				1
2/28/96	R	GOLDEN EAGLE	AOCH1	BZ	RG03B			3	N	1		2	XERIC MIXED GRASSLAND	323			1				1
4/17/96	R	GOLDEN EAGLE	AOCH1	EA	NEST	OU3	100TH			1		2	MESIC MIXED GRASSLAND	322	RIPARIAN WOODLAND	110	1				1
6/5/96	R	GOLDEN EAGLE	AOCH1	BZ				9	T	1		2	MESIC MIXED GRASSLAND	322			1				1
10/25/96	R	GOLDEN EAGLE	AOCH1	BZ	BW01A			6	L	5		2	MESIC MIXED GRASSLAND	322			1				1
11/22/96	R	GOLDEN EAGLE	AOCH1	BZ	RW02B			5	O	1	0	2	RIPARIAN WOODLAND	110	RIPARIAN SHRUBLAND-SALIX	212	1				1
11/22/96	R	GOLDEN EAGLE	AOCH1	BZ				7	Q	1	0	2	TRANSMISSION LINES	510	MESIC MIXED GRASSLAND	322	1				1
12/18/96	R	GOLDEN EAGLE	AOCH1	EA	MIT.WET					0		2	RIPARIAN WOODLAND	110	RECLAIMED GRASSLAND	325	1				1
12/19/96	R	GOLDEN EAGLE	AOCH1	BZ	RG03B			4	P	1		2	MESIC MIXED GRASSLAND	322			1				1
12/19/96	R	GOLDEN EAGLE	AOCH1	BZ				13	P	0		2	XERIC MIXED GRASSLAND	323			1				1
12/20/96	R	GOLDEN EAGLE	AOCH1	BZ	BG01B			5	G	1		2	XERIC MIXED GRASSLAND	323			1				1
12/23/96	R	GOLDEN EAGLE	AOCH1	EA	ABBOTT	OU3	ALKIRE			0		2	RIPARIAN WOODLAND	110	RECLAIMED GRASSLAND	325	1				1
2/2/96	R	SHORT-EARED OWL	ASFL1	BZ				4	J	0		2	MESIC MIXED GRASSLAND	322			1				1
3/29/96	R	SHORT-EARED OWL	ASFL1	BZ	BG01B			2	F	0		2	SHORT MARSH	20			1				1
4/26/96	R	SHORT-EARED OWL	ASFL1	BZ	LOBELIA			16	K	0		2	TALL UPLAND SHRUBLAND	230			1				1
7/30/96	R	SHORT-EARED OWL	ASFL1	BZ	LOBELIA			15	K	0		2	MESIC MIXED GRASSLAND	322	TALL UPLAND SHRUBLAND	230	1				1
5/22/96	R	LONG-EARED OWL	ASOT1	BZ	BW01A			7	L	0		2	RIPARIAN WOODLAND	110			1				1
10/8/96	R	LONG-EARED OWL	ASOT1	BZ				15	G	0		4	TALL UPLAND SHRUBLAND	230	RIPARIAN SHRUBLAND-SALIX	212	2				2
1/9/96	R	RED-TAILED HAWK	BUJA1	BZ	BW01A	OU1		7	N	5		2	RIPARIAN WOODLAND	110	RIPARIAN SHRUBLAND-SALIX	212	1				1
1/10/96	R	RED-TAILED HAWK	BUJA1	BZ				14	S	17		2	MESIC MIXED GRASSLAND	322			1				1
1/29/96	R	RED-TAILED HAWK	BUJA1	BZ	RW03B			7	I	1		2	RIPARIAN SHRUBLAND-SALIX	212			1				1
1/31/96	R	RED-TAILED HAWK	BUJA1	BZ	RW02B			5	P	1		2	RIPARIAN WOODLAND	110			1				1
2/8/96	R	RED-TAILED HAWK	BUJA1	BZ	RA02A			7	J	5		2	TALL MARSH	30			1				1
2/13/96	R	RED-TAILED HAWK	BUJA1	BZ		OU1		8	K	5		2	XERIC MIXED GRASSLAND	323	ANNUAL GRASS/FORB	410	2				2
2/15/96	R	RED-TAILED HAWK	BUJA1	BZ	RW02B			5	O	1		2	RIPARIAN SHRUBLAND-SALIX	212			1				1
3/27/96	R	RED-TAILED HAWK	BUJA1	BZ				10	F	0		2	RIPARIAN WOODLAND	110			2	1	1		
3/27/96	R	RED-TAILED HAWK	BUJA1	BZ				13	E	5		2	TALL UPLAND SHRUBLAND	230			2				2
3/27/96	R	RED-TAILED HAWK	BUJA1	BZ		OU11		8	F	0		2	XERIC MIXED GRASSLAND	323			1				1
3/28/96	R	RED-TAILED HAWK	BUJA1	BZ	BW01A	OU1		7	M	5		2	RIPARIAN WOODLAND	110	RIPARIAN SHRUBLAND-SALIX	212	1				1
3/28/96	R	RED-TAILED HAWK	BUJA1	BZ	BW01A	OU1		7	J	0		2	RIPARIAN WOODLAND	110			1				1
3/29/96	R	RED-TAILED HAWK	BUJA1	BZ				13	Q	1	0	2	TRANSMISSION LINES	510	MESIC MIXED GRASSLAND	322	1				1
3/29/96	R	RED-TAILED HAWK	BUJA1	BZ	RA01B			11	E	1		2	SHORT MARSH	20			1				1
3/29/96	R	RED-TAILED HAWK	BUJA1	BZ	RA01B			13	G	1		2	SHORT MARSH	20			1				1
3/29/96	R	RED-TAILED HAWK	BUJA1	BZ	RW01A			7	N	0		2	RIPARIAN WOODLAND	110			1				1
3/29/96	R	RED-TAILED HAWK	BUJA1	BZ	RW01A			7	N	0		2	RIPARIAN WOODLAND	110			2				2
3/29/96	R	RED-TAILED HAWK	BUJA1	BZ	RW03B			7	H	5		2	RIPARIAN SHRUBLAND-AMORPHA	211			2				2

1996 SIGNIFICANT-SPECIES DATABASE

DATE	TAXN	SPECIES	SPEC	ADMN	SITE	OP	ROADNAME	RF	RF	ACTIV	ACTIV	DAY	HABITAT	HAB	HABITAT2	HAB	GRUP	MALES	FEMALES	YOUNG	UNC
	GRUP		CODE	AREA	NAME	UNIT		GRIDN	GRIDE	TY1	TY2	NGHT		TYPE		TYPE2	SIZE				LASSD
4/26/96	R	RED-TAILED HAWK	BUJA1	BZ	BW01R			15	H	0		2	RIPARIAN WOODLAND	110			1				1
4/30/96	R	RED-TAILED HAWK	BUJA1	BZ				14	Q	0		2	TRANSMISSION LINES	510	MESIC MIXED GRASSLAND	322	1				1
4/30/96	R	RED-TAILED HAWK	BUJA1	BZ	RS02B			17	M	1		2	MESIC MIXED GRASSLAND	322			1				1
5/1/96	R	RED-TAILED HAWK	BUJA1	BZ				5	F	0		2	PONDEROSA WOODLAND	120	MESIC MIXED GRASSLAND	322	1				1
5/1/96	R	RED-TAILED HAWK	BUJA1	BZ				5	O	0		2	TRANSMISSION LINES	510	MESIC MIXED GRASSLAND	322	1				1
5/1/96	R	RED-TAILED HAWK	BUJA1	BZ				4	O	5		2	MESIC MIXED GRASSLAND	322			1				1
5/1/96	R	RED-TAILED HAWK	BUJA1	BZ	RW01B			13	T	9		2	RIPARIAN WOODLAND	110			1				1
5/13/96	R	RED-TAILED HAWK	BUJA1	BZ				7	H	1		2	RIPARIAN WOODLAND	110			1				1
5/13/96	R	RED-TAILED HAWK	BUJA1	BZ				7	P	5		2	RIPARIAN WOODLAND	110			1				1
5/13/96	R	RED-TAILED HAWK	BUJA1	BZ				7	J	17		2	RIPARIAN WOODLAND	110			1				1
5/14/96	R	RED-TAILED HAWK	BUJA1	BZ	RW03B			13	T	0		2	RIPARIAN WOODLAND	110			2	1	1		
5/20/96	R	RED-TAILED HAWK	BUJA1	BZ	BW01B			16	K	0		2	RIPARIAN WOODLAND	110			2	1	1		
5/28/96	R	RED-TAILED HAWK	BUJA1	BZ	BW01R			7	F	5	0	2	MESIC MIXED GRASSLAND	322	TRANSMISSION LINES	510	1				1
5/29/96	R	RED-TAILED HAWK	BUJA1	BZ				14	T	9		2	RIPARIAN WOODLAND	110			1		1		
6/6/96	R	RED-TAILED HAWK	BUJA1	BZ	BW01A			16	J	0		2	RIPARIAN WOODLAND	110			2	1	1		
6/12/96	R	RED-TAILED HAWK	BUJA1	BZ	BW01R			13	T	8		2	RIPARIAN WOODLAND	110			1				1
6/12/96	R	RED-TAILED HAWK	BUJA1	BZ	BW01B			7	I	8		2	RIPARIAN WOODLAND	110			1		1		
6/19/96	R	RED-TAILED HAWK	BUJA1	BZ				16	J	0		2	RIPARIAN WOODLAND	110			1				1
6/20/96	R	RED-TAILED HAWK	BUJA1	BZ	RW03B			7	I	17		2	RIPARIAN WOODLAND	110			1				1
6/26/96	R	RED-TAILED HAWK	BUJA1	BZ	RG03B			4	N	1		2	MESIC MIXED GRASSLAND	322			2	1	1		
6/27/96	R	RED-TAILED HAWK	BUJA1	BZ	BW01A			7	J	0		2	RIPARIAN WOODLAND	110			1				1
7/15/96	R	RED-TAILED HAWK	BUJA1	BZ	BW01A			7	J	0		2	RIPARIAN WOODLAND	110			1				1
7/16/96	R	RED-TAILED HAWK	BUJA1	BZ	RW03B			7	J	9	0	2	RIPARIAN WOODLAND	110			3	1	1	1	
7/18/96	R	RED-TAILED HAWK	BUJA1	BZ	RG02A	OU1		7	G	1		2	MESIC MIXED GRASSLAND	322			1				1
7/18/96	R	RED-TAILED HAWK	BUJA1	BZ	RG03B			3	L	1		2	XERIC MIXED GRASSLAND	323			1				1
7/22/96	R	RED-TAILED HAWK	BUJA1	BZ	RA03B			6	K	1		2	RIPARIAN WOODLAND	110			1				1
7/24/96	R	RED-TAILED HAWK	BUJA1	BZ	RS03B			4	S	0		2	RIPARIAN WOODLAND	110			1				1
7/25/96	R	RED-TAILED HAWK	BUJA1	BZ	RS03B			5	S	1		2	RIPARIAN SHRUBLAND-AMORPHA	211			1				1
7/29/96	R	RED-TAILED HAWK	BUJA1	BZ				6	I	1		2	SHORT MARSH	20			1				1
7/29/96	R	RED-TAILED HAWK	BUJA1	BZ				7	J	0		2	RIPARIAN WOODLAND	110			1				1
7/29/96	R	RED-TAILED HAWK	BUJA1	BZ				7	J	9		2	RIPARIAN WOODLAND	110			2			1	1
7/30/96	R	RED-TAILED HAWK	BUJA1	BZ				13	Q	0		2	TRANSMISSION LINES	510	MESIC MIXED GRASSLAND	322	1				1
7/30/96	R	RED-TAILED HAWK	BUJA1	BZ				7	J	0		2	RIPARIAN WOODLAND	110			2			1	1
7/30/96	R	RED-TAILED HAWK	BUJA1	BZ				7	J	1		2	MESIC MIXED GRASSLAND	322			1				1
7/30/96	R	RED-TAILED HAWK	BUJA1	BZ				5	F	-5		2	MESIC MIXED GRASSLAND	322			1				1
8/7/96	R	RED-TAILED HAWK	BUJA1	BZ	RW03B			7	J	9	0	2	RIPARIAN WOODLAND	110			2			1	1
8/22/96	R	RED-TAILED HAWK	BUJA1	BZ				6	I	0		2	TREE PLANTINGS	130	SHORT MARSH	20	1				1
8/22/96	R	RED-TAILED HAWK	BUJA1	BZ				3	I	0		2	TRANSMISSION LINES	510	MESIC MIXED GRASSLAND	322	1				1
8/22/96	R	RED-TAILED HAWK	BUJA1	BZ				7	J	0		2	RIPARIAN WOODLAND	110			1			1	
8/26/96	R	RED-TAILED HAWK	BUJA1	BZ	BW01A			7	J	0		2	RIPARIAN WOODLAND	110			1				1
8/27/96	R	RED-TAILED HAWK	BUJA1	BZ	RG02B			16	O	1		2	XERIC MIXED GRASSLAND	323			1				1
8/29/96	R	RED-TAILED HAWK	BUJA1	BZ	RW01B			13	T	0		2	RIPARIAN WOODLAND	110			1			1	
8/29/96	R	RED-TAILED HAWK	BUJA1	BZ	RS03B			5	S	0		2	RIPARIAN WOODLAND	110			1				1
8/29/96	R	RED-TAILED HAWK	BUJA1	BZ				5	F	0		2	RIPARIAN WOODLAND	110			1				1
9/12/96	R	RED-TAILED HAWK	BUJA1	BZ	RG02A			7	H	1		2	MESIC MIXED GRASSLAND	322			1				1
9/12/96	R	RED-TAILED HAWK	BUJA1	BZ	RA04B			2	U	1		2	IMPOUNDMENT MUDFLAT	93			1				1
9/17/96	R	RED-TAILED HAWK	BUJA1	BZ	RG03B			2	L	1		2	XERIC MIXED GRASSLAND	323			1				1
9/17/96	R	RED-TAILED HAWK	BUJA1	BZ	BW01R			15	I	1		2	RIPARIAN WOODLAND	110			1				1
9/19/96	R	RED-TAILED HAWK	BUJA1	BZ				2	K	0		2	TRANSMISSION LINES	510	XERIC MIXED GRASSLAND	323	1				1
9/24/96	R	RED-TAILED HAWK	BUJA1	BZ	RG03B			2	K	0		2	XERIC MIXED GRASSLAND	323	TRANSMISSION LINES	510	1				1
10/21/96	R	RED-TAILED HAWK	BUJA1	BZ	BG02B			8	D	5		2	XERIC MIXED GRASSLAND	323			1				1
10/22/96	R	RED-TAILED HAWK	BUJA1	BZ	RS01B			15	G	0		2	TALL UPLAND SHRUBLAND	230	RIPARIAN WOODLAND	110	1				1
10/23/96	R	RED-TAILED HAWK	BUJA1	BZ	BS03B			5	S	0		2	RIPARIAN WOODLAND	110			1				1
10/24/96	R	RED-TAILED HAWK	BUJA1	BZ	BD03B			2	S	5		2	RECLAIMED GRASSLAND	324			1				1
10/24/96	R	RED-TAILED HAWK	BUJA1	BZ	BA01A			5	N	0		2	TRANSMISSION LINES	510	RIPARIAN WOODLAND	110	1				1
10/25/96	R	RED-TAILED HAWK	BUJA1	BZ	RA02A	OL6		12	O	1		2	RIPARIAN SHRUBLAND-SALIX	212			1				1
11/25/96	R	RED-TAILED HAWK	BULA1	BZ				14	S	17		2	MESIC MIXED GRASSLAND	322			1				1
1/10/96	R	ROUGH-LEGGED HAWK	BULA1	BZ				11	G	5		2	MESIC MIXED GRASSLAND	322			1				1
1/18/96	R	ROUGH-LEGGED HAWK	BULA1	BZ																	

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DATE	TAXN	SPECIES	SPEC	ADMN	SITE	OP	ROADNAME	RF	RF	ACTIV	ACTIV	DAY	HABITAT	HAB	HABITAT2	HAB	GRUP	MALES	FEMALES	YOUNG	UNC
	GRUP		CODE	AREA	NAME	UNIT		GRIDN	GRIDE	TY1	TY2	NGHT		TYPE		TYPE2	SIZE				LESSO
1/19/96	R	ROUGH-LEGGED HAWK	BULA1	BZ				13	G	1		2	SHORT MARSH	20	MESIC MIXED GRASSLAND	322	1				1
1/29/96	R	ROUGH-LEGGED HAWK	BULA1	BZ	RA02A			6	I	5		2	SHORT MARSH	20			1				1
1/30/96	R	ROUGH-LEGGED HAWK	BULA1	BZ	RG02B			16	O	1		2	XERIC MIXED GRASSLAND	323			1				1
1/31/96	R	ROUGH-LEGGED HAWK	BULA1	BZ	RA01B			11	E	5		2	SHORT MARSH	20	TALL MARSH	30	1				1
1/31/96	R	ROUGH-LEGGED HAWK	BULA1	BZ	RW01B			14	Q	5		2	RIPARIAN WOODLAND	110			1				1
1/31/96	R	ROUGH-LEGGED HAWK	BULA1	BZ	RW02B			5	P	1		2	RIPARIAN WOODLAND	110			1				1
2/13/96	R	ROUGH-LEGGED HAWK	BULA1	BZ				7	L	5		2	RIPARIAN WOODLAND	110	RIPARIAN SHRUBLAND-SALIX	212	1				1
2/13/96	R	ROUGH-LEGGED HAWK	BULA1	BZ	BX01A			8	L	5		2	XERIC MIXED GRASSLAND	323	RECLAIMED GRASSLAND	324	1				1
12/19/96	R	ROUGH-LEGGED HAWK	BULA1	BZ				7	Q	0		2	TRANSMISSION LINES	510	MESIC MIXED GRASSLAND	322	1				1
2/23/96	R	FERRUGINOUS HAWK	BURE1	BZ	RA02B			12	N	0		2	RIPARIAN WOODLAND	110			1				1
3/23/96	R	FERRUGINOUS HAWK	BURE1	BZ	POND C-2	OU5		7	P	5		2	IMPONUMENT	54	RECLAIMED GRASSLAND	324	1				1
5/30/96	R	FERRUGINOUS HAWK	BURE1	BZ	RW01A			7	O	0		2	RIPARIAN WOODLAND	110	RIPARIAN SHRUBLAND-SALIX	212	1				1
6/5/96	R	FERRUGINOUS HAWK	BURE1	BZ				7	K	1		2	RIPARIAN WOODLAND	110	RIPARIAN SHRUBLAND-SALIX	212	1				1
11/26/96	R	FERRUGINOUS HAWK	BURE1	EA	STANDLEY	OU3	100TH			0		2	RIPARIAN WOODLAND	110	MESIC MIXED GRASSLAND	322	1				1
3/31/96	R	SWAINSON'S HAWK	BUSW1	BZ	RG03B			5	O	0		2	TRANSMISSION LINES	510	XERIC MIXED GRASSLAND	323	1				1
4/17/96	R	SWAINSON'S HAWK	BUSW1	BZ	BA01R			12	F	5		2	SHORT MARSH	20	TALL MARSH	30	1				1
4/30/96	R	SWAINSON'S HAWK	BUSW1	BZ	PAC 3			11	K	1		2	MESIC MIXED GRASSLAND	322	RIPARIAN WOODLAND	110	1				1
5/1/96	R	SWAINSON'S HAWK	BUSW1	BZ	RA02B	OU6		11	M	0		2	RIPARIAN WOODLAND	110			2	1	1		
5/13/96	R	SWAINSON'S HAWK	BUSW1	BZ				12	M	8		2	RIPARIAN WOODLAND	110			2	1	1		
5/15/96	R	SWAINSON'S HAWK	BUSW1	BZ				11	M	8		2	RIPARIAN WOODLAND	110			2	1	1		1
5/30/96	R	SWAINSON'S HAWK	BUSW1	BZ	RA02B			12	N	0		2	TRANSMISSION LINES	510	MESIC MIXED GRASSLAND	322	1				
5/26/96	R	SWAINSON'S HAWK	BUSW1	BZ				12	M	9	1	2	RIPARIAN WOODLAND	110			2	1	1	2	
7/16/96	R	SWAINSON'S HAWK	BUSW1	BZ				11	M	9	1	2	RIPARIAN WOODLAND	110			2	1	1		1
7/22/96	R	SWAINSON'S HAWK	BUSW1	BZ	RA02B	OU5		12	O	1	0	2	TRANSMISSION LINES	510	MESIC MIXED GRASSLAND	322	1	1			
7/22/96	R	SWAINSON'S HAWK	BUSW1	BZ	RA02B			11	M	0		2	RIPARIAN WOODLAND	110			2			2	
7/30/96	R	SWAINSON'S HAWK	BUSW1	BZ				12	N	0		2	TRANSMISSION LINES	510	MESIC MIXED GRASSLAND	322	1				1
7/30/96	R	SWAINSON'S HAWK	BUSW1	BZ				11	M	0		2	RIPARIAN WOODLAND	110			2			1	2
8/22/96	R	SWAINSON'S HAWK	BUSW1	BZ				11	N	1	9	2	RIPARIAN WOODLAND	110	MESIC MIXED GRASSLAND	322	3				1
8/22/96	R	SWAINSON'S HAWK	BUSW1	BZ				2	O	5		2	XERIC MIXED GRASSLAND	323			1				2
9/24/96	R	SWAINSON'S HAWK	BUSW1	BZ				4	H	0		2	FENCE	560	XERIC MIXED GRASSLAND	323	2				1
1/10/96	R	GREAT HORNED OWL	BUV11	BZ	BS03B			4	S	0		2	RIPARIAN WOODLAND	110	RIPARIAN SHRUBLAND-SALIX	212	1				1
1/10/96	R	GREAT HORNED OWL	BUV11	BZ	BW01B			13	U	0		2	RIPARIAN WOODLAND	110			1				2
1/10/96	R	GREAT HORNED OWL	BUV11	BZ				13	G	0		2	BUILDING	520			2				1
1/19/96	R	GREAT HORNED OWL	BUV11	BZ	RW03B			7	H	0		2	RIPARIAN WOODLAND	110			1				1
1/29/96	R	GREAT HORNED OWL	BUV11	BZ	RA02B	OU6		11	M	0		2	RIPARIAN WOODLAND	110	RIPARIAN SHRUBLAND-SALIX	212	1				1
1/31/96	R	GREAT HORNED OWL	BUV11	BZ	RA02B	OU6		11	P	0		2	RIPARIAN WOODLAND	110			1				1
1/31/96	R	GREAT HORNED OWL	BUV11	BZ	RW01B			13	R	0		2	RIPARIAN WOODLAND	110			1				1
1/31/96	R	GREAT HORNED OWL	BUV11	BZ	RW01B			13	T	0		2	RIPARIAN WOODLAND	110			2				2
1/31/96	R	GREAT HORNED OWL	BUV11	BZ	LINDSAY			13	G	0		2	BUILDING	520			2	1	1		
1/31/96	R	GREAT HORNED OWL	BUV11	BZ	RW02B			5	P	6		2	RIPARIAN WOODLAND	110			2				1
2/8/96	R	GREAT HORNED OWL	BUV11	BZ	SID			8	P	0		2	RIPARIAN WOODLAND	110			1				1
2/8/96	R	GREAT HORNED OWL	BUV11	BZ	RW01B			13	T	0		2	RIPARIAN WOODLAND	110			1				1
2/15/96	R	GREAT HORNED OWL	BUV11	BZ	RA02B			12	N	0		2	RIPARIAN WOODLAND	110			1				1
2/29/96	R	GREAT HORNED OWL	BUV11	BZ	RS03B			4	S	0		2	RIPARIAN WOODLAND	110			1				1
2/29/96	R	GREAT HORNED OWL	BUV11	BZ	RA04B			4	O	0		2	RIPARIAN WOODLAND	110			1				1
2/29/96	R	GREAT HORNED OWL	BUV11	BZ	RA04B			3	S	0		2	RIPARIAN WOODLAND	110			1				1
3/29/96	R	GREAT HORNED OWL	BUV11	BZ	RW01A			7	O	0		2	RIPARIAN WOODLAND	110			1				1
3/29/96	R	GREAT HORNED OWL	BUV11	BZ	RW01B			13	R	0		2	RIPARIAN WOODLAND	110			1				1
3/29/96	R	GREAT HORNED OWL	BUV11	BZ	RW02B			5	O	0		2	RIPARIAN WOODLAND	110			1				1
3/31/96	R	GREAT HORNED OWL	BUV11	BZ	RW02B			4	N	9		2	RIPARIAN WOODLAND	110			2				2
3/31/96	R	GREAT HORNED OWL	BUV11	BZ				13	S	0		2	RIPARIAN WOODLAND	110			2				2
4/29/96	R	GREAT HORNED OWL	BUV11	BZ	RW01B			13	R	0		2	RIPARIAN WOODLAND	110			1				1
4/30/96	R	GREAT HORNED OWL	BUV11	BZ				13	R	0		2	RIPARIAN WOODLAND	110			2				2
4/30/96	R	GREAT HORNED OWL	BUV11	BZ				13	S	0		2	RIPARIAN WOODLAND	110			1				1
4/30/96	R	GREAT HORNED OWL	BUV11	BZ	RA02B			11	M	0		2	RIPARIAN WOODLAND	110			3			2	1
5/1/96	R	GREAT HORNED OWL	BUV11	BZ	RW02B			4	N	0	9	2	RIPARIAN WOODLAND	110			2				2
5/1/96	R	GREAT HORNED OWL	BUV11	BZ				13	S	0		2	RIPARIAN WOODLAND	110			2				2
5/1/96	R	GREAT HORNED OWL	BUV11	BZ				13	R	0		2	RIPARIAN WOODLAND	110			2				2

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DATE	TAXN GRUP	SPECIES	SPEC CODE	ADMN AREA	SITE NAME	OP UNIT	ROADNAME	RF GRIDN	RF GRIDE	ACTIV TY1	ACTIV TY2	DAY NGHT	HABITAT	HAB TYPE	HABITAT2	HAB TYPE2	GRUP SIZE	MALES	FEMALES	YOUNG	UNC LASSD
5/2/96	R	GREAT HORNED OWL	BUV11	BZ				4	N	0		2	RIPARIAN WOODLAND	110			3			2	1
5/7/96	R	GREAT HORNED OWL	BUV11	BZ				13	S	0		2	RIPARIAN WOODLAND	110			2	1	1		2
5/9/96	R	GREAT HORNED OWL	BUV11	BZ				13	S	0		2	RIPARIAN WOODLAND	110			3			1	2
5/13/96	R	GREAT HORNED OWL	BUV11	BZ	RW01B			13	R	0	9	2	RIPARIAN WOODLAND	110			1				1
5/13/96	R	GREAT HORNED OWL	BUV11	BZ				5	P	0		2	RIPARIAN WOODLAND	110			3			2	1
5/13/96	R	GREAT HORNED OWL	BUV11	BZ				5	O	0		2	RIPARIAN WOODLAND	110			1				1
5/13/96	R	GREAT HORNED OWL	BUV11	BZ				4	L	1		2	RIPARIAN WOODLAND	110			1				1
5/13/96	R	GREAT HORNED OWL	BUV11	BZ	LINDSAY			13	G	0		2	BUILDING	520			1				1
5/13/96	R	GREAT HORNED OWL	BUV11	BZ				13	R	0		2	RIPARIAN WOODLAND	110			2				2
5/14/96	R	GREAT HORNED OWL	BUV11	BZ				13	R	0		2	RIPARIAN WOODLAND	110			1				1
5/15/96	R	GREAT HORNED OWL	BUV11	BZ				11	M	0		2	RIPARIAN WOODLAND	110			1				1
5/20/96	R	GREAT HORNED OWL	BUV11	BZ	BW01B			13	R	0		2	RIPARIAN WOODLAND	110			1				1
5/22/96	R	GREAT HORNED OWL	BUV11	BZ	BW01A			7	M	0		2	RIPARIAN WOODLAND	110			1				1
5/28/96	R	GREAT HORNED OWL	BUV11	BZ	RW02B			5	P	0		2	RIPARIAN WOODLAND	110			3			2	1
5/29/96	R	GREAT HORNED OWL	BUV11	BZ	RA01B			11	E	0		2	PONDEROSA WOODLAND	120			2				2
5/30/96	R	GREAT HORNED OWL	BUV11	BZ	RA04B			3	S	0		2	RIPARIAN WOODLAND	110			1				1
6/3/96	R	GREAT HORNED OWL	BUV11	BZ	BS01B			13	F	0		2	TALL UPLAND SHRUBLAND	230			1				1
6/3/96	R	GREAT HORNED OWL	BUV11	BZ				11	E	0		2	FENCE	560			1				1
6/8/96	R	GREAT HORNED OWL	BUV11	BZ	BW01R			17	L	0		2	RIPARIAN WOODLAND	110			1				1
6/11/96	R	GREAT HORNED OWL	BUV11	BZ	LINDSAY			11	E	0		2	MESIC MIXED GRASSLAND	322	FENCE	560	1				1
6/12/96	R	GREAT HORNED OWL	BUV11	BZ	BW01R			17	K	0		2	RIPARIAN WOODLAND	110			2			1	1
6/12/96	R	GREAT HORNED OWL	BUV11	BZ	BW01B			13	R	0		2	RIPARIAN WOODLAND	110			2				1
6/12/96	R	GREAT HORNED OWL	BUV11	BZ	BW01R			17	K	0		2	RIPARIAN WOODLAND	110			1				1
6/19/96	R	GREAT HORNED OWL	BUV11	BZ	BS03B			5	R	0		2	RIPARIAN WOODLAND	110			1				1
6/19/96	R	GREAT HORNED OWL	BUV11	BZ	BW01R			16	K	0		2	RIPARIAN WOODLAND	110			1				1
6/25/96	R	GREAT HORNED OWL	BUV11	BZ	RS03B			5	Q	0		2	RIPARIAN WOODLAND	110			1				1
6/25/96	R	GREAT HORNED OWL	BUV11	BZ	BA01A			7	M	0		2	RIPARIAN WOODLAND	110			1				1
6/26/96	R	GREAT HORNED OWL	BUV11	BZ	BW01B			13	R	0		2	RIPARIAN WOODLAND	110			1				1
6/26/96	R	GREAT HORNED OWL	BUV11	BZ	BW01B			13	R	5		2	RIPARIAN WOODLAND	110			2				2
6/26/96	R	GREAT HORNED OWL	BUV11	BZ	RA04B			3	S	0		2	RIPARIAN WOODLAND	110			1				1
6/26/96	R	GREAT HORNED OWL	BUV11	BZ	RW01A			7	P	1		2	RIPARIAN SHRUBLAND-SALIX	212			1				1
6/27/96	R	GREAT HORNED OWL	BUV11	BZ	BW01B			13	T	0		2	RIPARIAN WOODLAND	110			1				1
7/16/96	R	GREAT HORNED OWL	BUV11	BZ	BS01B			14	F	0		2	TALL UPLAND SHRUBLAND	230			2				2
7/16/96	R	GREAT HORNED OWL	BUV11	BZ	RS01B			13	F	0		2	TALL UPLAND SHRUBLAND	230			2				2
7/17/96	R	GREAT HORNED OWL	BUV11	BZ	RA02B	OU6		11	P	0		2	RIPARIAN WOODLAND	110	RIPARIAN SHRUBLAND-SALIX	212	1				1
7/22/96	R	GREAT HORNED OWL	BUV11	BZ	RW02B			5	O	0		2	RIPARIAN WOODLAND	110			3			2	1
7/22/96	R	GREAT HORNED OWL	BUV11	BZ	LINDSAY			13	G	1		2	TALL UPLAND SHRUBLAND	230	SHORT MARSH	20	2				2
7/30/96	R	GREAT HORNED OWL	BUV11	BZ				7	O	0		2	MESIC MIXED GRASSLAND	322	XERIC MIXED GRASSLAND	323	1				1
7/30/96	R	GREAT HORNED OWL	BUV11	BZ	LINDSAY			13	H	0		2	TREE PLANTINGS	130			1				1
7/30/96	R	GREAT HORNED OWL	BUV11	BZ	LINDSAY			13	G	0		2	BUILDING	520			1				1
7/30/96	R	GREAT HORNED OWL	BUV11	BZ	RA04B			3	S	0		2	RIPARIAN WOODLAND	110			1				1
8/29/96	R	GREAT HORNED OWL	BUV11	BZ	RW01A			7	N	0		2	RIPARIAN WOODLAND	110			1				1
9/12/96	R	GREAT HORNED OWL	BUV11	BZ	BS02B			15	J	0		2	TALL UPLAND SHRUBLAND	230			1				1
9/13/96	R	GREAT HORNED OWL	BUV11	BZ	BS01B			14	F	0		2	TALL UPLAND SHRUBLAND	230			1				1
9/17/96	R	GREAT HORNED OWL	BUV11	BZ	L. BARN			13	G	0		2	BUILDING	520			1				1
9/19/96	R	GREAT HORNED OWL	BUV11	BZ		OU6		10	P	0		2	RIPARIAN WOODLAND	110			1				1
10/3/96	R	GREAT HORNED OWL	BUV11	BZ				14	N	0		4	RIPARIAN SHRUBLAND-SALIX	212	RIPARIAN WOODLAND	110	2				2
10/8/96	R	GREAT HORNED OWL	BUV11	BZ				14	H	0		4	PONDEROSA WOODLAND	120	TALL UPLAND SHRUBLAND	230	1				1
10/8/96	R	GREAT HORNED OWL	BUV11	BZ				11	I	1		4	BUILDING	520			1				1
10/8/96	R	GREAT HORNED OWL	BUV11	BZ	RW01A	OU1		7	M	0		2	RIPARIAN WOODLAND	110	RIPARIAN SHRUBLAND-SALIX	212	2				2
10/21/96	R	GREAT HORNED OWL	BUV11	BZ	BW01B			13	S	0		2	RIPARIAN WOODLAND	110			1				1
10/22/96	R	GREAT HORNED OWL	BUV11	BZ	RS01B			15	G	0		2	TALL UPLAND SHRUBLAND	230	RIPARIAN WOODLAND	110	1				1
10/23/96	R	GREAT HORNED OWL	BUV11	BZ	RW03A	OU5		7	H	0		2	RIPARIAN WOODLAND	110	RIPARIAN SHRUBLAND-SALIX	212	1				1
10/23/96	R	GREAT HORNED OWL	BUV11	BZ				7	K	0		2	RIPARIAN WOODLAND	110			1				1
10/23/96	R	GREAT HORNED OWL	BUV11	BZ	RA02B	OU6		11	M	0		2	RIPARIAN WOODLAND	110			3				3
10/23/96	R	GREAT HORNED OWL	BUV11	BZ	BW01R			16	J	0		2	RIPARIAN WOODLAND	110			1				1
10/24/96	R	GREAT HORNED OWL	BUV11	BZ	BW01R			13	U	0		2	RIPARIAN WOODLAND	110			1				1
11/20/96	R	GREAT HORNED OWL	BUV11	BZ	BW01R			16	K	0		2	RIPARIAN WOODLAND	110			1				1
11/21/96	R	GREAT HORNED OWL	BUV11	BZ	BW01A			7	N	0		2	RIPARIAN WOODLAND	110	RIPARIAN SHRUBLAND-SALIX	212	1				1
11/22/96	R	GREAT HORNED OWL	BUV11	BZ	RW01A			7	N	0		2	RIPARIAN WOODLAND	110	RIPARIAN SHRUBLAND-SALIX	212	1				1

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DATE	TAXN	SPECIES	SPEC	ADMN	SITE	OP	ROADNAME	RF	RF	ACTV	ACTV	DAY	HABITAT	HAB	HABITAT2	HAB	GRUP	MALES	FEMALES	YOUNG	UNC
	GRUP		CODE	AREA	NAME	UNIT		GRIDN	GRIDE	TY1	TY2	NGHT		TYPE		TYPE2	SIZE				LASSD
11/25/96	R	GREAT HORNED OWL	BUV11	BZ	RA02A	OU6		11	M	0		2	RIPARIAN WOODLAND	110			1				1
11/25/96	R	GREAT HORNED OWL	BUV11	BZ	BA01R			13	G	1		2	BUILDING	520			2	1	1		1
11/26/96	R	GREAT HORNED OWL	BUV11	BZ	MAHONIA			13	F	5		2	RIPARIAN WOODLAND	110	TALL UPLAND SHRUBLAND	230	1				1
12/18/96	R	GREAT HORNED OWL	BUV11	BZ	RW01A			7	M	0		2	RIPARIAN WOODLAND	110	RIPARIAN SHRUBLAND-SALIX	212	1				1
12/18/96	R	GREAT HORNED OWL	BUV11	BZ	RW01A			7	M	0		2	RIPARIAN WOODLAND	110	RIPARIAN SHRUBLAND-SALIX	212	1				1
12/18/96	R	GREAT HORNED OWL	BUV11	BZ	RS01B			13	F	0		2	TALL UPLAND SHRUBLAND	230			1				1
12/18/96	R	GREAT HORNED OWL	BUV11	BZ	LINDSAY			13	G	0		2	BUILDING	520			1				1
12/18/96	R	GREAT HORNED OWL	BUV11	BZ	RS03B			5	R	0		2	RIPARIAN WOODLAND	110	RIPARIAN SHRUBLAND-SALIX	212	1				1
12/19/96	R	GREAT HORNED OWL	BUV11	BZ	RS03B			13	S	0		2	RIPARIAN WOODLAND	110	RIPARIAN SHRUBLAND-SALIX	212	1				1
12/19/96	R	GREAT HORNED OWL	BUV11	BZ	RW01B			13	S	0		2	RIPARIAN WOODLAND	110			1				1
12/19/96	R	GREAT HORNED OWL	BUV11	BZ	BW01B			3	S	0		2	RIPARIAN WOODLAND	110			1				1
12/19/96	R	GREAT HORNED OWL	BUV11	BZ	RA04B			11	M	0		2	RIPARIAN WOODLAND	110	RIPARIAN SHRUBLAND-SALIX	212	2				2
12/20/96	R	GREAT HORNED OWL	BUV11	BZ	RA02B	OU6		11	N	0		2	RIPARIAN WOODLAND	110	RIPARIAN SHRUBLAND-SALIX	212	3				3
12/23/96	R	GREAT HORNED OWL	BUV11	BZ		OU6		3	S	0		2	RIPARIAN WOODLAND	110	RECLAIMED GRASSLAND	324	1				1
12/23/96	R	GREAT HORNED OWL	BUV11	BZ				13	G	0		2	BUILDING	520			1				1
12/23/96	R	GREAT HORNED OWL	BUV11	BZ				8	M	1		2	RECLAIMED GRASSLAND	324			1				1
4/25/96	R	TURKEY VULTURE	CAAU1	BZ	881 HILL			13	F	1		2	TALL UPLAND SHRUBLAND	230			1				1
4/30/96	R	TURKEY VULTURE	CAAU1	BZ	RS01B			11	J	1		2	XERIC MIXED GRASSLAND	323			2				2
5/15/96	R	TURKEY VULTURE	CAAU1	BZ	PU&D			17	O	1		2	XERIC MIXED GRASSLAND	323			1				1
9/18/96	R	TURKEY VULTURE	CAAU1	BZ	RG02B			15	O	5		2	MESIC MIXED GRASSLAND	322			1				1
1/10/96	R	NORTHERN HARRIER	CICY1	BZ	BG01R			14	S	5		2	MESIC MIXED GRASSLAND	322			1				1
1/10/96	R	NORTHERN HARRIER	CICY1	BZ	BX01B			10	R	5		2	XERIC MIXED GRASSLAND	323			1				1
1/11/96	R	NORTHERN HARRIER	CICY1	BZ				9	R	5		2	MESIC MIXED GRASSLAND	322			1		1		1
1/18/96	R	NORTHERN HARRIER	CICY1	BZ	RA02B	OU6		10	O	5		2	MESIC MIXED GRASSLAND	322			1				1
1/31/96	R	NORTHERN HARRIER	CICY1	BZ	ORCHARD			6	I	5		2	SHORT MARSH	20			1		1		1
2/13/96	R	NORTHERN HARRIER	CICY1	BZ	BA01B			6	J	5		2	SHORT MARSH	20			1				1
2/14/96	R	NORTHERN HARRIER	CICY1	BZ	BX01R			13	F			2	XERIC MIXED GRASSLAND	323			1				1
2/16/96	R	NORTHERN HARRIER	CICY1	BZ	RW01A			7	M	5		2	RIPARIAN WOODLAND	110	RIPARIAN SHRUBLAND-SALIX	212	1		1		1
2/28/96	R	NORTHERN HARRIER	CICY1	BZ	RS01B			14	G	1		2	TALL UPLAND SHRUBLAND	230			1				1
3/29/96	R	NORTHERN HARRIER	CICY1	BZ	LANDFILL			13	K	5		2	ANNUAL GRASS/FOB	410			1		1		1
8/29/96	R	NORTHERN HARRIER	CICY1	BZ	BW01A			7	I	5		2	RIPARIAN SHRUBLAND-SALIX	212	RIPARIAN WOODLAND	110	1		1		2
9/12/96	R	NORTHERN HARRIER	CICY1	BZ	RA03B			6	J	5		2	WET MEADOW	10			2				1
9/12/96	R	NORTHERN HARRIER	CICY1	BZ	RW01A			7	L	5		2	RIPARIAN SHRUBLAND-SALIX	212			1				1
9/12/96	R	NORTHERN HARRIER	CICY1	BZ	RS02B			13	H	1		2	TALL UPLAND SHRUBLAND	230			1				1
9/13/96	R	NORTHERN HARRIER	CICY1	BZ	BS02B			5	I	5		2	SHORT MARSH	20	MESIC MIXED GRASSLAND	322	1				1
9/24/96	R	NORTHERN HARRIER	CICY1	BZ	BG01B			3	G	5		2	RECLAIMED GRASSLAND	324			1		1		1
11/22/96	R	NORTHERN HARRIER	CICY1	BZ	BG01B			12	N	0	1	2	RECLAIMED GRASSLAND	324	TRANSMISSION LINES	510	1	1	1		1
12/20/96	R	MERLIN	FACO1	BZ	RA02B	OU6		11	O	6		2	MESIC MIXED GRASSLAND	322			2	1	1		1
1/31/96	R	PRAIRIE FALCON	FAME1	BZ	RA02B	OU6		8	P	0		2	RIPARIAN WOODLAND	110			1				1
2/8/96	R	PRAIRIE FALCON	FAME1	BZ	SID			14	Q	0		2	TRANSMISSION LINES	510	MESIC MIXED GRASSLAND	322	1				1
11/21/96	R	PRAIRIE FALCON	FAME1	BZ				12	S	0		2	FENCE	560	XERIC MIXED GRASSLAND	323	1		1		1
8/22/96	R	PEREGRINE FALCON	FAPE1	BZ				4	N	0		2	MESIC MIXED GRASSLAND	322	TRANSMISSION LINES	510	1	1			1
1/18/96	R	AMERICAN KESTREL	FASP1	BZ				13	G	5		2	MESIC MIXED GRASSLAND	322			1				1
1/18/96	R	AMERICAN KESTREL	FASP1	BZ	BA01R			13	G	5		2	SHORT MARSH	20			1				1
2/28/96	R	AMERICAN KESTREL	FASP1	BZ	BA01R			13	G	5		2	SHORT MARSH	20	TALL MARSH	30	1				1
3/27/96	R	AMERICAN KESTREL	FASP1	BZ	BS02B			13	H	5		2	SHORT MARSH	20	TALL MARSH	30	1				1
3/27/96	R	AMERICAN KESTREL	FASP1	BZ	RA01B			13	G	1		2	SHORT MARSH	20			1				1
3/29/96	R	AMERICAN KESTREL	FASP1	BZ				13	Q	1		2	MESIC MIXED GRASSLAND	322			1				1
3/29/96	R	AMERICAN KESTREL	FASP1	BZ	LINDSAY			13	G	0		2	BUILDING	520	MESIC MIXED GRASSLAND	322	1		1		1
4/17/96	R	AMERICAN KESTREL	FASP1	EA	NEST	OU3	100TH			5		2	MESIC MIXED GRASSLAND	322			2				2
4/17/96	R	AMERICAN KESTREL	FASP1	EA	NEST	OU3	100TH			1		2	MESIC MIXED GRASSLAND	322			1				1
4/17/96	R	AMERICAN KESTREL	FASP1	BZ	POND A-1	OU6		11	L	1		2	MESIC MIXED GRASSLAND	322	RIPARIAN WOODLAND	110	1				1
4/30/96	R	AMERICAN KESTREL	FASP1	BZ	RW01A			7	O	5		2	RIPARIAN WOODLAND	110	RIPARIAN SHRUBLAND-SALIX	212	1				1
4/30/96	R	AMERICAN KESTREL	FASP1	BZ	POND A-2	OU6		12	O	5		2	MESIC MIXED GRASSLAND	322			1				1
4/30/96	R	AMERICAN KESTREL	FASP1	BZ				14	Q	5		2	MESIC MIXED GRASSLAND	322			1				1
4/30/96	R	AMERICAN KESTREL	FASP1	BZ				2	G	0	1	2	TRANSMISSION LINES	510	XERIC MIXED GRASSLAND	323	1				1
5/1/96	R	AMERICAN KESTREL	FASP1	BZ				3	N	0		2	FENCE	560	XERIC MIXED GRASSLAND	323	1		1		1
5/1/96	R	AMERICAN KESTREL	FASP1	BZ				4	P	5		2	XERIC MIXED GRASSLAND	323			1		1		1

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DATE	TAXN	SPECIES	SPEC	ADMN	SITE	OP	ROADNAME	RF	RF	ACTIV	ACTIV	DAY	HABITAT	HAB	HABITAT2	HAB	GRUP	MALES	FEMALES	YOUNG	UNC
	GRUP		CODE	AREA	NAME	UNIT		GRIDN	GRIDE	TY1	TY2	NGHT		TYPE		TYPE2	SIZE				LASSD
7/18/96	R	AMERICAN KESTREL	FASP1	BZ	RW03B			7	F	1		2	RIPARIAN WOODLAND	110			1	1			
7/24/96	R	AMERICAN KESTREL	FASP1	BZ				7	F	1		2	MESIC MIXED GRASSLAND	322			1	1			
7/29/96	R	AMERICAN KESTREL	FASP1	BZ				2	F	5		2	XERIC MIXED GRASSLAND	323			1				1
7/29/96	R	AMERICAN KESTREL	FASP1	BZ				2	J	5		2	XERIC MIXED GRASSLAND	323			1				1
7/30/96	R	AMERICAN KESTREL	FASP1	BZ				2	H	5		2	XERIC MIXED GRASSLAND	323			1				1
8/7/96	R	AMERICAN KESTREL	FASP1	BZ	RG02A			7	F	0		2	TRANSMISSION LINES	510	MESIC MIXED GRASSLAND	322	1				1
8/22/96	R	AMERICAN KESTREL	FASP1	BZ				3	P	1		2	MESIC MIXED GRASSLAND	322			1				1
8/22/96	R	AMERICAN KESTREL	FASP1	BZ				6	F	1		2	MESIC MIXED GRASSLAND	322			2		1		
8/22/96	R	AMERICAN KESTREL	FASP1	BZ				3	F	5		2	XERIC MIXED GRASSLAND	323			1	1			
8/26/96	R	AMERICAN KESTREL	FASP1	BZ	BW01A			7	J	0		2	RIPARIAN WOODLAND	110			2				2
8/28/96	R	AMERICAN KESTREL	FASP1	BZ	RA02B			10	O	5		2	MESIC MIXED GRASSLAND	322			1				1
8/29/96	R	AMERICAN KESTREL	FASP1	BZ	RG03B			2	K	5		2	XERIC MIXED GRASSLAND	323			2	1	1		
9/12/96	R	AMERICAN KESTREL	FASP1	BZ	RW03B			7	I	5		2	RIPARIAN WOODLAND	110			1				1
9/12/96	R	AMERICAN KESTREL	FASP1	BZ	BG02A			7	K	5		2	RECLAIMED GRASSLAND	324			1	1			
9/18/96	R	AMERICAN KESTREL	FASP1	BZ				15	P	5		2	MESIC MIXED GRASSLAND	322			1				1
9/19/96	R	AMERICAN KESTREL	FASP1	BZ	BW01R			16	J	5		2	RIPARIAN WOODLAND	110			1	1			
9/24/96	R	AMERICAN KESTREL	FASP1	BZ				5	I	5		2	SHORT MARSH	20	MESIC MIXED GRASSLAND	322	1				1
9/24/96	R	AMERICAN KESTREL	FASP1	BZ				2	H	0		2	TRANSMISSION LINES	510	XERIC MIXED GRASSLAND	323	1	1			
9/25/96	R	AMERICAN KESTREL	FASP1	BZ	RA02B			12	O	5		2	TALL MARSH	30			1				1
10/3/96	R	AMERICAN KESTREL	FASP1	BZ	RANGE			11	I	5		2	MESIC MIXED GRASSLAND	322	ANNUAL GRASS/FOB	410	1				1
10/23/96	R	AMERICAN KESTREL	FASP1	BZ	RG02A	OU5		7	G	1		2	MESIC MIXED GRASSLAND	322			1				1
10/30/96	R	AMERICAN KESTREL	FASP1	BZ	BG01B			6	G	0		2	MESIC MIXED GRASSLAND	322			2	2			
11/19/96	R	AMERICAN KESTREL	FASP1	BZ				10	N	5		2	RECLAIMED GRASSLAND	324			1	1			
11/20/96	R	AMERICAN KESTREL	FASP1	BZ				8	P	5		2	RECLAIMED GRASSLAND	324			1				1
11/21/96	R	AMERICAN KESTREL	FASP1	BZ				14	Q	11	0	2	TRANSMISSION LINES	510	MESIC MIXED GRASSLAND	322	1	1			
11/26/96	R	AMERICAN KESTREL	FASP1	BZ	BG01R			14	Q	5		2	MESIC MIXED GRASSLAND	322			1	1			
12/23/96	R	AMERICAN KESTREL	FASP1	IA				10	I	1		2	RECLAIMED GRASSLAND	324	MESIC MIXED GRASSLAND	322	1	1			
12/23/96	R	AMERICAN KESTREL	FASP1	BZ				5	P	0		2	TRANSMISSION LINES	510	MESIC MIXED GRASSLAND	322	1	1			
12/23/96	R	AMERICAN KESTREL	FASP1	EA	ABBOTT	OU3	ALKIRE			1		2	MESIC MIXED GRASSLAND	322			1				1
1/19/96	R	BALD EAGLE	HALE1	BZ				16	J	1		2	RIPARIAN WOODLAND	110	MESIC MIXED GRASSLAND	322	1				1
3/28/96	R	BALD EAGLE	HALE1	BZ	BW01A	OU1		7	J	0		2	RIPARIAN WOODLAND	110			1				
4/17/96	R	BALD EAGLE	HALE1	EA	NEST	OU3	100TH			0	9	2	RIPARIAN WOODLAND	110			2	1	1		
5/10/96	R	BALD EAGLE	HALE1	EA	NEST	OU3	100TH			9		2	RIPARIAN WOODLAND	110			3	1	1	1	
6/3/96	R	BALD EAGLE	HALE1	EA	NEST	OU3	100TH			19	9	2	RIPARIAN WOODLAND	110			3	1	1	1	
11/26/96	R	BALD EAGLE	HALE1	EA	SNAG	OU3	ALKIRE			0		2	RIPARIAN WOODLAND	110	IMPOUNDMENT	54	1				1
12/18/96	R	BALD EAGLE	HALE1	EA	SNAG					0		2	RIPARIAN WOODLAND	110	IMPOUNDMENT	54	2	1	1		
12/23/96	R	BALD EAGLE	HALE1	EA	NEST	OU3	100TH			0		2	RIPARIAN WOODLAND	110	MESIC MIXED GRASSLAND	322	1				1
12/23/96	R	BALD EAGLE	HALE1	EA	SNAG	OU3	ALKIRE			0		2	RIPARIAN WOODLAND	110	IMPOUNDMENT	54	2			1	1
4/17/96	R	OSPREY	PAHA1	EA	NEST	OU3	100TH			1		2	MESIC MIXED GRASSLAND	322	RIPARIAN WOODLAND	110	1				1
8/22/96	W	WOOD DUCK	AISP1	BZ	POND A-4	OU6		13	O	5		2	IMPOUNDMENT	54			1				1
8/29/96	W	WOOD DUCK	AISP1	BZ	POND A-2	OU6		12	O	5		2	IMPOUNDMENT	54			1				
9/25/96	W	WOOD DUCK	AISP1	BZ	POND A-3	OU6		12	P	5		2	IMPOUNDMENT	54			1				
10/23/96	W	NORTHERN PINTAIL	ANAC1	BZ	POND B-1	OU6		10	O	5		2	IMPOUNDMENT	54			8				8
1/31/96	W	AMERICAN WIGEON	ANAM1	BZ	POND B-3	OU6		10	O	5		2	IMPOUNDMENT	54			2				2
5/13/96	W	AMERICAN WIGEON	ANAM1	BZ	POND D-2			2	T	5		2	IMPOUNDMENT	54			2	1	1		
6/26/96	W	AMERICAN WIGEON	ANAM1	BZ	POND D-2			2	U	5		2	IMPOUNDMENT	54			3	1	2		
3/29/96	W	NORTHERN SHOVELER	ANCL1	BZ	RA04B			2	T	5		2	IMPOUNDMENT	54			1				1
5/13/96	W	NORTHERN SHOVELER	ANCL1	BZ	POND D-2			2	T	5		2	IMPOUNDMENT	54			14	8	6		
5/30/96	W	NORTHERN SHOVELER	ANCL1	BZ	POND D-2			2	T	5		2	IMPOUNDMENT	54			2	1	1		
6/5/96	W	NORTHERN SHOVELER	ANCL1	BZ	POND D-2			2	T	5		2	IMPOUNDMENT	54			4	2	2		
2/13/96	W	GREEN-WINGED TEAL	ANCR1	BZ	POND A-3	OU6		12	O	5		2	IMPOUNDMENT	54			7	5	2		
2/15/96	W	GREEN-WINGED TEAL	ANCR1	BZ	POND A-2	OU6		12	O	5		2	IMPOUNDMENT	54			4	1	3		
2/29/96	W	GREEN-WINGED TEAL	ANCR1	BZ	POND B-4	OU6		10	P	5		2	IMPOUNDMENT	54			6				6
2/29/96	W	GREEN-WINGED TEAL	ANCR1	BZ	POND B-3	OU6		10	O	5		2	IMPOUNDMENT	54			5				5
2/29/96	W	GREEN-WINGED TEAL	ANCR1	BZ	POND D-2			2	T	5		2	IMPOUNDMENT	54			1				1
3/29/96	W	GREEN-WINGED TEAL	ANCR1	BZ	POND A-1	OU6		12	N	5		2	IMPOUNDMENT	54			2				2
3/29/96	W	GREEN-WINGED TEAL	ANCR1	BZ	POND A-2	OU6		12	O	5		2	IMPOUNDMENT	54			2				2
3/29/96	W	GREEN-WINGED TEAL	ANCR1	BZ	POND A-3	OU6		12	P	5		2	IMPOUNDMENT	54			4				4

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DATE	TAXN	SPECIES	SPEC	ADRN	SITE	OP	ROADNAME	RF	RF	ACTV	ACTV	DAY	HABITAT	HAB	HABITAT2	HAB	GRUP	MALES	FEMALES	YOUNG	UNC
	GROUP		CODE	AREA	NAME	UNIT		GRIDN	GRIDE	TY1	TY2	NGHT		TYPE		TYPE2	SIZE				LASSD
3/29/96	W	GREEN-WINGED TEAL	ANCR1	BZ	POND B-4	OU6		10	P	5		2	IMPOUNDMENT	54			6				6
3/29/96	W	GREEN-WINGED TEAL	ANCR1	BZ	POND B-3	OU6		10	O	5		2	IMPOUNDMENT	54			2				2
3/29/96	W	GREEN-WINGED TEAL	ANCR1	BZ	POND B-2	OU6		10	O	5		2	IMPOUNDMENT	54			6				6
3/29/96	W	GREEN-WINGED TEAL	ANCR1	BZ	POND B-1	OU6		10	O	5		2	IMPOUNDMENT	54			9				9
3/29/96	W	GREEN-WINGED TEAL	ANCR1	BZ	RA04B			3	R	0		2	IMPOUNDMENT	54			2				2
3/29/96	W	GREEN-WINGED TEAL	ANCR1	BZ	POND A-3	OU6		12	P	5		2	IMPOUNDMENT	54			2	1	1		2
4/1/96	W	GREEN-WINGED TEAL	ANCR1	BZ	BA01A			7	L			2	TALL MARSH	30			2				2
4/1/96	W	GREEN-WINGED TEAL	ANCR1	BZ	BW01A	OU1		7	N			2	IMPOUNDMENT	54			2				2
4/16/96	W	GREEN-WINGED TEAL	ANCR1	BZ	POND A-2	OU6		12	N	5		2	IMPOUNDMENT	54			4	2	2		
4/17/96	W	GREEN-WINGED TEAL	ANCR1	BZ	POND B-5	OU6		11	O	5		2	IMPOUNDMENT	54			5	3	2		
5/1/96	W	GREEN-WINGED TEAL	ANCR1	BZ	POND B-5	OU6		11	O	5		2	IMPOUNDMENT	54			2	1	1		
5/1/96	W	GREEN-WINGED TEAL	ANCR1	BZ	POND B-2	OU6		10	O	5		2	IMPOUNDMENT	54			5	3	2		
5/13/96	W	GREEN-WINGED TEAL	ANCR1	BZ	POND C-2	OU5		2	T	5		2	IMPOUNDMENT	54			2	1	1		
5/13/96	W	GREEN-WINGED TEAL	ANCR1	BZ	POND D-2			2	T	5		2	IMPOUNDMENT	54			4	4			
5/30/96	W	GREEN-WINGED TEAL	ANCR1	BZ	POND D-2			2	T	5		2	IMPOUNDMENT	54			7		1	6	
7/30/96	W	GREEN-WINGED TEAL	ANCR1	BZ	POND B-3	OU6		10	O	5		2	IMPOUNDMENT	54			10		5	5	
7/30/96	W	GREEN-WINGED TEAL	ANCR1	BZ	POND B-1	OU6		10	O	5		2	IMPOUNDMENT	54			1		1		
7/30/96	W	GREEN-WINGED TEAL	ANCR1	BZ	POND D-2			2	T	5		2	IMPOUNDMENT	54			4				4
9/25/96	W	GREEN-WINGED TEAL	ANCR1	BZ	POND B-1	OU6		10	N	5		2	IMPOUNDMENT	54			4	3	1		
10/21/96	W	GREEN-WINGED TEAL	ANCR1	BZ	POND D-2			2	T	5		2	IMPOUNDMENT	54			5	4	1		
10/23/96	W	GREEN-WINGED TEAL	ANCR1	BZ	POND B-5	OU6		11	O	5		2	IMPOUNDMENT	54			5				
10/23/96	W	GREEN-WINGED TEAL	ANCR1	BZ	POND B-4	OU6		10	P	5		2	IMPOUNDMENT	54			1	1			
10/23/96	W	GREEN-WINGED TEAL	ANCR1	BZ	POND B-2	OU6		10	O	5		2	IMPOUNDMENT	54			1	1			
10/23/96	W	GREEN-WINGED TEAL	ANCR1	BZ	POND A-4	OU6		12	O	5		2	IMPOUNDMENT	54			2	2			
11/25/96	W	GREEN-WINGED TEAL	ANCR1	BZ	POND B-4	OU6		10	P	5		2	IMPOUNDMENT	54			2	2			
12/20/96	W	GREEN-WINGED TEAL	ANCR1	BZ	POND B-3	OU6		10	O	5		2	IMPOUNDMENT	54			2				
12/20/96	W	GREEN-WINGED TEAL	ANCR1	BZ	POND B-4	OU6		10	P	5		2	IMPOUNDMENT	54			1	1			
2/15/96	W	CINNAMON TEAL	ANCY1	BZ	POND A-3	OU6		12	P	5		2	IMPOUNDMENT	54			8	4	4		
4/25/96	W	CINNAMON TEAL	ANCY1	BZ	POND D-1			3	R	5		2	IMPOUNDMENT	54			3	2	1		
4/29/96	W	CINNAMON TEAL	ANCY1	BZ	POND D-2			2	T	5		2	IMPOUNDMENT	54			2	1	1		
4/30/96	W	CINNAMON TEAL	ANCY1	BZ	POND C-1	OU5		7	N	5		2	IMPOUNDMENT	54			1	1			
6/5/96	W	CINNAMON TEAL	ANCY1	BZ	POND D-2			2	T	5		2	IMPOUNDMENT	54			2				2
6/11/96	W	CINNAMON TEAL	ANCY1	BZ	BS03B			5	R	1		2	RIPARIAN SHRUBLAND-AMORPHA	211			2	1	1		
6/19/96	W	CINNAMON TEAL	ANCY1	BZ	POND D-2			2	T	5		2	IMPOUNDMENT	54			1		1		
7/30/96	W	CINNAMON TEAL	ANCY1	BZ	POND D-1			4	R	5		2	IMPOUNDMENT	54			5	2	1	2	
8/8/96	W	CINNAMON TEAL	ANCY1	BZ	POND D-2			2	T	5		2	IMPOUNDMENT	54			2	1	1		
8/8/96	W	CINNAMON TEAL	ANCY1	BZ	POND D-2			2	T	5		2	IMPOUNDMENT	54			2				
4/25/96	W	BLUE-WINGED TEAL	AND11	BZ	POND D-2			2	T	5		2	IMPOUNDMENT	54			3	3			
4/29/96	W	BLUE-WINGED TEAL	AND11	BZ	POND B-2	OU6		10	P	5		2	IMPOUNDMENT	54			4	2	2		
5/1/96	W	BLUE-WINGED TEAL	AND11	BZ	POND A-1	OU6		12	N	5		2	IMPOUNDMENT	54			8	6	2		
5/1/96	W	BLUE-WINGED TEAL	AND11	BZ	POND A-3	OU6		12	O	5		2	IMPOUNDMENT	54			3	2	1		
5/1/96	W	BLUE-WINGED TEAL	AND11	BZ	POND B-2	OU6		10	O	5		2	IMPOUNDMENT	54			2	1	1		
5/1/96	W	BLUE-WINGED TEAL	AND11	BZ	POND B-1	OU6		10	O	5		2	IMPOUNDMENT	54			2				2
5/9/96	W	BLUE-WINGED TEAL	AND11	BZ	POND A-3	OU6		12	P	5		2	IMPOUNDMENT	54			2	1	1		
5/13/96	W	BLUE-WINGED TEAL	AND11	BZ	POND A-1	OU6		12	N	5		2	IMPOUNDMENT	54			2	1	1		
5/13/96	W	BLUE-WINGED TEAL	AND11	BZ	POND A-2	OU6		12	M	5		2	IMPOUNDMENT	54			2	1	1		
5/13/96	W	BLUE-WINGED TEAL	AND11	BZ	POND A-3	OU6		12	P	5		2	IMPOUNDMENT	54			2	1	1		
5/13/96	W	BLUE-WINGED TEAL	AND11	BZ	POND D-2			2	T	5		2	IMPOUNDMENT	54			2				
5/21/96	W	BLUE-WINGED TEAL	AND11	BZ	BA01R			13	H	5		2	IMPOUNDMENT	54			1				1
5/30/96	W	BLUE-WINGED TEAL	AND11	BZ	POND A-1	OU6		12	N	1	1	2	IMPOUNDMENT	54			1	1			
5/30/96	W	BLUE-WINGED TEAL	AND11	BZ	POND B-5	OU6		11	O	5		2	IMPOUNDMENT	54			1	1			
5/30/96	W	BLUE-WINGED TEAL	AND11	BZ	POND B-4	OU6		10	P	5		2	IMPOUNDMENT	54			3	2	1		
5/30/96	W	BLUE-WINGED TEAL	AND11	BZ	POND B-2	OU6		10	O	5		2	IMPOUNDMENT	54			2	1	1		
5/30/96	W	BLUE-WINGED TEAL	AND11	BZ	POND B-1	OU6		10	O	5		2	IMPOUNDMENT	54			2	1	1		
5/30/96	W	BLUE-WINGED TEAL	AND11	BZ	POND D-2			2	T	5		2	IMPOUNDMENT	54			3				3
5/30/96	W	BLUE-WINGED TEAL	AND11	BZ	POND A-2	OU6		12	O	5		2	IMPOUNDMENT	54			7		1	6	
7/22/96	W	BLUE-WINGED TEAL	AND11	BZ	POND B-3	OU6		10	O	5		2	IMPOUNDMENT	54			9		1	8	
7/22/96	W	BLUE-WINGED TEAL	AND11	BZ	POND B-3	OU6		10	O	5		2	IMPOUNDMENT	54			6		1	5	
7/22/96	W	BLUE-WINGED TEAL	AND11	BZ	POND B-1	OU6		10	O	5		2	IMPOUNDMENT	54			1		1		
7/25/96	W	BLUE-WINGED TEAL	AND11	BZ	POND D-2			2	T	5		2	IMPOUNDMENT	54							

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DATE	TAXN	SPECIES	SPEC	ADMIN	SITE	OP	ROADNAME	RF	RF	ACTIV	ACTIV	DAY	HABITAT	HAB	HABITAT2	HAB	GRUP	MALES	FEMALES	YOUNG	UNC
	GRUP		CODE	AREA	NAME	UNIT		GRIDN	GRIDE	TY1	TY2	NGHT		TYPE		TYPE2	SIZE				LASSD
7/29/96	W	BLUE-WINGED TEAL	ANDI1	BZ	POND D-2			2	T	5		2	IMPOUNDMENT	54			8				8
7/30/96	W	BLUE-WINGED TEAL	ANDI1	BZ	LANDFILL	OU7		13	L	5		2	IMPOUNDMENT	54			2	1	1		2
8/8/96	W	BLUE-WINGED TEAL	ANDI1	BZ	POND D-2			2	T	5		2	IMPOUNDMENT	54			1				1
8/22/96	W	BLUE-WINGED TEAL	ANDI1	BZ	POND B-1	OU6		10	O	5		2	IMPOUNDMENT	54			1		1		12
8/28/96	W	BLUE-WINGED TEAL	ANDI1	BZ	POND B-2	OU6		10	O	5		2	IMPOUNDMENT	54			12				3
8/28/96	W	BLUE-WINGED TEAL	ANDI1	BZ	POND B-1	OU6		10	O	5		2	IMPOUNDMENT	54			3				3
8/29/96	W	BLUE-WINGED TEAL	ANDI1	BZ	POND D-2			2	T	5		2	IMPOUNDMENT	54			3				3
9/17/96	W	BLUE-WINGED TEAL	ANDI1	BZ	POND D-2			2	T	5		2	IMPOUNDMENT	54			1		1		2
9/25/96	W	BLUE-WINGED TEAL	ANDI1	BZ	POND A-3	OU6		12	P	5		2	IMPOUNDMENT	54			2				
9/25/96	W	BLUE-WINGED TEAL	ANDI1	BZ	POND B-1	OU6		10	N	5		2	IMPOUNDMENT	54			1		1		
9/25/96	W	BLUE-WINGED TEAL	ANDI1	BZ	POND D-2			2	T	5		2	IMPOUNDMENT	54			2	2			
10/24/96	W	BLUE-WINGED TEAL	ANDI1	BZ	POND A-4	OU6		12	Q	5		2	IMPOUNDMENT	54			5	4			
11/25/96	W	BLUE-WINGED TEAL	ANDI1	BZ	POND D-2			2	T			2	IMPOUNDMENT	54			2	1	1		
2/8/96	W	MALLARD	ANPL1	BZ	POND A-3	OU6		12	O	5		2	IMPOUNDMENT	54			17	10	7		
2/13/96	W	MALLARD	ANPL1	BZ	POND A-2	OU6		12	O	5		2	IMPOUNDMENT	54			9				9
2/15/96	W	MALLARD	ANPL1	BZ	BW01A	OU1		7	N			2	IMPOUNDMENT	54			16				16
2/21/96	W	MALLARD	ANPL1	BZ	POND B-4	OU6		10	P	5		2	IMPOUNDMENT	54			10				10
2/29/96	W	MALLARD	ANPL1	BZ	POND B-3	OU6		10	O	5		2	IMPOUNDMENT	54			3	2	1		
2/29/96	W	MALLARD	ANPL1	BZ	LINDSAY			13	H	5		2	IMPOUNDMENT	54			2	1	1		
3/27/96	W	MALLARD	ANPL1	BZ	RA03B			6	K	5		2	STREAM RIFFLE	41			2	1	1		
3/29/96	W	MALLARD	ANPL1	BZ	WM CK BY			8	P	5		2	DITCH POOL	49			2				2
3/29/96	W	MALLARD	ANPL1	BZ	POND A-1	OU6		12	N	5		2	IMPOUNDMENT	54			6				6
3/29/96	W	MALLARD	ANPL1	BZ	POND A-2	OU6		12	O	5		2	IMPOUNDMENT	54			2				2
3/29/96	W	MALLARD	ANPL1	BZ	POND B-3	OU6		10	O	5		2	IMPOUNDMENT	54			1				1
3/29/96	W	MALLARD	ANPL1	BZ	POND B-2	OU6		10	O	5		2	IMPOUNDMENT	54			6				6
3/29/96	W	MALLARD	ANPL1	BZ	RA04B			2	T	5		2	IMPOUNDMENT	54			2	1	1		
3/29/96	W	MALLARD	ANPL1	BZ	POND C-1	OU5		7	N	0		2	IMPOUNDMENT	54			2	1	1		
3/29/96	W	MALLARD	ANPL1	BZ	POND C-2	OU5		12	O	5		2	IMPOUNDMENT	54			2	1	1		
3/29/96	W	MALLARD	ANPL1	BZ	POND A-2	OU6		12	N	5		2	IMPOUNDMENT	54			2	1	1		
3/29/96	W	MALLARD	ANPL1	BZ	POND A-1	OU6		12	N	5		2	IMPOUNDMENT	54			2	1	1		
3/31/96	W	MALLARD	ANPL1	BZ	RW02B			5	P	0		2	DUGOUT POND	57			2	1	1		
3/31/96	W	MALLARD	ANPL1	BZ	RW02B			4	N	0		2	DUGOUT POND	57			1		1		
3/31/96	W	MALLARD	ANPL1	BZ	RW02B			5	O	1		2	RIPARIAN WOODLAND	110			4				4
3/31/96	W	MALLARD	ANPL1	BZ	BA01A			7	M			2	TALL MARSH	30			2				2
4/1/96	W	MALLARD	ANPL1	BZ	BW01A	OU1		7	L			2	INTERMITTENT STREAM POOL	43			2				3
4/16/96	W	MALLARD	ANPL1	BZ	BA01R			13	G	5		2	TALL MARSH	30	IMPOUNDMENT	54	3				2
4/17/96	W	MALLARD	ANPL1	BZ	LINDSAY			13	H	5		2	IMPOUNDMENT	54			4	2	2		
4/17/96	W	MALLARD	ANPL1	BZ	POND A-2	OU6		12	N	5		2	IMPOUNDMENT	54			2	1	1		
4/17/96	W	MALLARD	ANPL1	BZ	RS03B			4	T	5		2	STREAM RIFFLE	41			2	1	1		
4/25/96	W	MALLARD	ANPL1	BZ	POND D-1			4	R	5		2	IMPOUNDMENT	54			2	1	1		
4/25/96	W	MALLARD	ANPL1	BZ	POND D-2			2	T	5		2	IMPOUNDMENT	54			1	1			
4/25/96	W	MALLARD	ANPL1	BZ	POND B-4	OU6		10	P	5		2	IMPOUNDMENT	54			2	2			
4/29/96	W	MALLARD	ANPL1	BZ	POND B-2	OU6		10	P	5		2	IMPOUNDMENT	54			7	4	3		
4/29/96	W	MALLARD	ANPL1	BZ	POND B-5	OU6		12	Q	5		2	IMPOUNDMENT	54			4	2	2		
4/29/96	W	MALLARD	ANPL1	BZ	POND D-2			2	T	5		2	IMPOUNDMENT	54			2	1	1		
4/29/96	W	MALLARD	ANPL1	BZ	RA01B			12	F	5		2	TALL MARSH	30			4	3	1		
4/30/96	W	MALLARD	ANPL1	BZ	POND C-1	OU5		7	N	5		2	IMPOUNDMENT	54			2	1	1		
4/30/96	W	MALLARD	ANPL1	BZ	LINDSAY			13	H	5		2	IMPOUNDMENT	54			2	1	1		
4/30/96	W	MALLARD	ANPL1	BZ	LINDSAY2			11	F	5		2	IMPOUNDMENT	54			3	1	1		1
4/30/96	W	MALLARD	ANPL1	BZ	RW01B			13	T	1	5	2	RIPARIAN WOODLAND	110			4				4
4/30/96	W	MALLARD	ANPL1	BZ				13	R	5		2	INTERMITTENT STREAM POOL	43			4	2	2		
5/1/96	W	MALLARD	ANPL1	BZ	POND A-1	OU6		12	N	5		2	IMPOUNDMENT	54			4	2	2		
5/1/96	W	MALLARD	ANPL1	BZ	POND A-2	OU6		12	O	5		2	IMPOUNDMENT	54			8	4	4		
5/1/96	W	MALLARD	ANPL1	BZ	POND A-3	OU6		12	O	5		2	IMPOUNDMENT	54			2	1	1		
5/1/96	W	MALLARD	ANPL1	BZ	POND B-5	OU6		11	Q	5		2	IMPOUNDMENT	54			2	1	1		
5/1/96	W	MALLARD	ANPL1	BZ	POND B-5	OU6		11	Q	5		2	IMPOUNDMENT	54			2	1	1		
5/1/96	W	MALLARD	ANPL1	BZ	POND B-4	OU6		10	P	5		2	IMPOUNDMENT	54			3	2	1		
5/1/96	W	MALLARD	ANPL1	BZ	POND B-3	OU6		10	O	5		2	IMPOUNDMENT	54							

1996 SIGNIFICANT-SPECIES DATABASE

DATE	TAXN	SPECIES	SPEC	ADMN	SITE	OP	ROADNAME	RF	RF	ACTIV	ACTIV	DAY	HABITAT	HAB	HABITAT2	HAB	GRUP	MALES	FEMALES	YOUNG	UNC
	GROUP		CODE	AREA	NAME	UNIT		GRIDN	GRIDE	TY1	TY2	NGHT		TYPE		TYPE2	SIZE				LASSD
5/1/96	W	MALLARD	ANPL1	BZ	POND B-2	OU6		10	O	5		2	IMPOUNDMENT	54			3	3			
5/1/96	W	MALLARD	ANPL1	BZ	POND A-3	OU6		12	O	0		2	IMPOUNDMENT MUDFLAT	93			2	1	1		
5/1/96	W	MALLARD	ANPL1	BZ	RA02B	OU6		12	O	0		2	MESIC MIXED GRASSLAND	322			4	2	2		
5/13/96	W	MALLARD	ANPL1	BZ	SID			7	K	5		2	DITCH POOL	49			2	2			
5/13/96	W	MALLARD	ANPL1	BZ	POND A-2	OU6		12	M	5		2	IMPOUNDMENT	54			2	2			
5/13/96	W	MALLARD	ANPL1	BZ	POND A-2	OU6		12	M	5		2	IMPOUNDMENT	54			1	1			
5/13/96	W	MALLARD	ANPL1	BZ	LINDSAY			13	H	5		2	IMPOUNDMENT	54			2	2			
5/13/96	W	MALLARD	ANPL1	BZ	POND A-3	OU6		12	P	5		2	IMPOUNDMENT	54			2	1	1		
5/13/96	W	MALLARD	ANPL1	BZ	POND C-1	OU5		7	N	5		2	IMPOUNDMENT	54			1	1			
5/13/96	W	MALLARD	ANPL1	BZ	POND D-2			2	T	5		2	IMPOUNDMENT	54			6	3	3		
5/15/96	W	MALLARD	ANPL1	BZ	POND A-3	OU6		12	O	5		2	IMPOUNDMENT	54			2				2
5/21/96	W	MALLARD	ANPL1	BZ	POND A-3	OU6		10	O	5		2	IMPOUNDMENT	54			2	1	1		
5/21/96	W	MALLARD	ANPL1	BZ	POND A-2	OU6		10	O	5		2	IMPOUNDMENT	54			1	1			
5/21/96	W	MALLARD	ANPL1	BZ	BS01B			14	I	1		2	TALL UPLAND SHRUBLAND	230			2	2			
5/22/96	W	MALLARD	ANPL1	BZ	BA01A			7	J	5		2	DITCH POOL	49			1				1
5/22/96	W	MALLARD	ANPL1	BZ	BA01A			7	J	5		2	DITCH POOL	49			2	1	1		
5/22/96	W	MALLARD	ANPL1	BZ	BA01A			7	L	5		2	DITCH POOL	49			1				1
5/28/96	W	MALLARD	ANPL1	BZ	BW01R			16	J	5		2	INTERMITTENT STREAM POOL	43			2	1	1		
5/29/96	W	MALLARD	ANPL1	BZ	LINDSAY2			11	E	5		2	IMPOUNDMENT	54			2	1	1		
5/29/96	W	MALLARD	ANPL1	BZ	LINDSAY			13	H	5		2	IMPOUNDMENT	54			2	1	1		
5/30/96	W	MALLARD	ANPL1	BZ	POND C-2	OU5		7	P	5		2	IMPOUNDMENT	54			3	2	1		
5/30/96	W	MALLARD	ANPL1	BZ	POND A-3	OU6		12	O	5		2	IMPOUNDMENT	54			17	10	4	3	
5/30/96	W	MALLARD	ANPL1	BZ	POND B-5	OU6		11	O	5		2	IMPOUNDMENT	54			8	6	2		
5/30/96	W	MALLARD	ANPL1	BZ	POND B-3	OU6		10	O	5		2	IMPOUNDMENT	54			1	1			
5/30/96	W	MALLARD	ANPL1	BZ	POND D-2			2	T	5		2	IMPOUNDMENT	54			3	2	1		
6/4/96	W	MALLARD	ANPL1	BZ	BW01A			6	L	5		2	INTERMITTENT STREAM POOL	43	RIPARIAN WOODLAND	110	2	1	1		
6/4/96	W	MALLARD	ANPL1	BZ	BG02B			11	D	5		2	NATURAL POND	51			1				1
6/5/96	W	MALLARD	ANPL1	BZ	POND D-2			2	T	5		2	IMPOUNDMENT	54			1		1		
6/5/96	W	MALLARD	ANPL1	BZ	BG02A	OU1		7	L	1		2	MESIC MIXED GRASSLAND	322			1				1
6/6/96	W	MALLARD	ANPL1	BZ	BW01R			17	K	5		2	INTERMITTENT STREAM POOL	43			1				1
6/6/96	W	MALLARD	ANPL1	BZ	BW01A			14	T	5		2	NATURAL POND	51			1				1
6/6/96	W	MALLARD	ANPL1	BZ	BW01R			17	L	1		2	RIPARIAN WOODLAND	110			2				2
6/6/96	W	MALLARD	ANPL1	BZ	BW01R			16	J	1		2	RIPARIAN WOODLAND	110			1				1
6/11/96	W	MALLARD	ANPL1	BZ	BW01A	OU1		7	N	5		2	IMPOUNDMENT	54			1				1
6/12/96	W	MALLARD	ANPL1	BZ	BW01B			13	R	5		2	INTERMITTENT STREAM POOL	43	RIPARIAN SHRUBLAND-SALIX	212	1	1			
6/12/96	W	MALLARD	ANPL1	BZ	BW01B			13	R	5		2	INTERMITTENT STREAM POOL	43			2	2			
6/13/96	W	MALLARD	ANPL1	BZ	BG02A			7	J	5		2	TALL MARSH	30			1				1
6/18/96	W	MALLARD	ANPL1	BZ	BA01A			7	L	5	0	2	DITCH POOL	49	TALL MARSH	30	2				2
6/25/96	W	MALLARD	ANPL1	BZ	BA01R			13	H	5		2	IMPOUNDMENT	54			1				1
6/28/96	W	MALLARD	ANPL1	BZ	BA01A			7	L	0		2	DITCH POOL	49			2				2
6/26/96	W	MALLARD	ANPL1	BZ	POND A-3	OU6		12	P	5		2	IMPOUNDMENT	54			2	1	1		
6/26/96	W	MALLARD	ANPL1	BZ	POND A-2	OU6		12	O	5		2	IMPOUNDMENT	54			5		2	3	
6/26/96	W	MALLARD	ANPL1	BZ	POND A-1	OU6		12	N	5		2	IMPOUNDMENT	54			4	2	2		
6/26/96	W	MALLARD	ANPL1	BZ	POND D-2			2	T	5		2	IMPOUNDMENT	54			4	2	2		
6/26/96	W	MALLARD	ANPL1	BZ	POND D-2			2	T	0		2	IMPOUNDMENT MUDFLAT	93			6	3	3		
7/16/96	W	MALLARD	ANPL1	BZ	POND C-1	OU5		7	N	5		2	IMPOUNDMENT	54			1				1
7/16/96	W	MALLARD	ANPL1	BZ	POND A-2	OU6		12	O	5		2	IMPOUNDMENT	54			2				2
7/16/96	W	MALLARD	ANPL1	BZ	POND A-1	OU6		12	N	6		2	IMPOUNDMENT	54			7				7
7/22/96	W	MALLARD	ANPL1	BZ	POND A-1	OU6		12	N	5		2	IMPOUNDMENT	54			7			7	
7/22/96	W	MALLARD	ANPL1	BZ	POND A-2	OU6		12	O	5		2	IMPOUNDMENT	54			7		1	6	
7/22/96	W	MALLARD	ANPL1	BZ	POND A-3	OU6		12	O	5		2	IMPOUNDMENT	54			1		1		
7/22/96	W	MALLARD	ANPL1	BZ	POND B-4	OU6		10	P	5		2	IMPOUNDMENT	54			6		3	3	
7/22/96	W	MALLARD	ANPL1	BZ	POND B-2	OU6		10	O	5		2	IMPOUNDMENT	54			1		1		
7/23/96	W	MALLARD	ANPL1	BZ	POND D-2			2	T	5		2	IMPOUNDMENT	54			1		1		
7/23/96	W	MALLARD	ANPL1	BZ	POND C-2	OU5		7	P	5		2	IMPOUNDMENT	54			1				1
7/23/96	W	MALLARD	ANPL1	BZ	POND D-2			2	T	5		2	IMPOUNDMENT	54			5	2	3		
7/23/96	W	MALLARD	ANPL1	BZ	POND D-1			3	R	5		2	IMPOUNDMENT	54			8			9	
7/30/96	W	MALLARD	ANPL1	BZ	POND A-3	OU6		12	P	5		2	IMPOUNDMENT	54			3				3

1996 SIGNIFICANT-SPECIES DATABASE

DATE	TAXN	SPECIES	SPEC	ADMN	SITE	OP	ROADNAME	RF	RF	ACTIV	ACTIV	DAY	HABITAT	HAB	HABITAT2	HAB	GRUP	MALES	FEMALES	YOUNG	UNC
	GRUP		CODE	AREA	NAME	UNIT		GRIDN	GRIDE	TY1	TY2	NGHT		TYPE		TYPE2	SIZE				LASSD
7/30/96	W	MALLARD	ANPL1	BZ	POND A-2	OU6		12	O	5		2	IMPOUNDMENT	54			15				15
7/30/96	W	MALLARD	ANPL1	BZ	POND A-1	OU6		12	N	5		2	IMPOUNDMENT	54			9				9
7/30/96	W	MALLARD	ANPL1	BZ	POND B-5	OU6		11	O	5		2	IMPOUNDMENT	54			3				3
7/30/96	W	MALLARD	ANPL1	BZ	POND B-4	OU6		10	P	5		2	IMPOUNDMENT	54			3			3	
7/30/96	W	MALLARD	ANPL1	BZ	POND B-3	OU6		10	O	5		2	IMPOUNDMENT	54			3				3
7/30/96	W	MALLARD	ANPL1	BZ	POND B-1	OU6		10	O	5		2	IMPOUNDMENT	54			4				4
7/30/96	W	MALLARD	ANPL1	BZ	POND C-1	OU5		7	N	5		2	IMPOUNDMENT	54			1				1
8/8/96	W	MALLARD	ANPL1	BZ	POND D-2			2	T	5		2	IMPOUNDMENT	54			6		1		5
8/22/96	W	MALLARD	ANPL1	BZ	POND B-1	OU6		10	O	5		2	IMPOUNDMENT	54			7				7
8/22/96	W	MALLARD	ANPL1	BZ	POND B-3	OU6		10	O	5		2	IMPOUNDMENT	54			6			6	
8/22/96	W	MALLARD	ANPL1	BZ	POND A-4	OU6		13	O	5		2	IMPOUNDMENT	54			6				6
8/22/96	W	MALLARD	ANPL1	BZ	POND C-2	OU5		7	P	5		2	IMPOUNDMENT	54			1				1
8/22/96	W	MALLARD	ANPL1	BZ	POND D-2			2	T	5		2	IMPOUNDMENT	54			4				4
8/22/96	W	MALLARD	ANPL1	BZ	POND A-2	OU6		12	O	5		2	IMPOUNDMENT	54			3		3		
8/22/96	W	MALLARD	ANPL1	BZ	POND A-3	OU6		12	P	5		2	IMPOUNDMENT	54			9				9
8/26/96	W	MALLARD	ANPL1	BZ	BW01A			7	N	5		2	IMPOUNDMENT	54			1				1
8/27/96	W	MALLARD	ANPL1	BZ	RA01B			13	H	5		2	TALL MARSH	30			1		1		
8/27/96	W	MALLARD	ANPL1	BZ	POND A-3	OU6		12	P	5		2	IMPOUNDMENT	54			3				3
8/28/96	W	MALLARD	ANPL1	BZ	POND A-2	OU6		12	O	5		2	IMPOUNDMENT	54			5				5
8/28/96	W	MALLARD	ANPL1	BZ	POND A-3	OU6		12	O	5		2	IMPOUNDMENT	54			14				14
8/28/96	W	MALLARD	ANPL1	BZ	POND B-3	OU6		10	O	5		2	IMPOUNDMENT	54			2				2
8/28/96	W	MALLARD	ANPL1	BZ	POND B-1	OU6		10	O	5		2	IMPOUNDMENT	54			14				14
8/29/96	W	MALLARD	ANPL1	BZ	POND D-1			3	R	5		2	IMPOUNDMENT	54			2				2
8/29/96	W	MALLARD	ANPL1	BZ	POND D-2			2	T	5		2	IMPOUNDMENT	54			16				16
9/17/96	W	MALLARD	ANPL1	BZ	POND D-2			2	T	5		2	IMPOUNDMENT	54			10				10
9/18/96	W	MALLARD	ANPL1	BZ	RW01B			13	U	5		2	IMPOUNDMENT	54			1		1		
9/19/96	W	MALLARD	ANPL1	BZ	POND A-3	OU6		12	P	5		2	IMPOUNDMENT	54			8				8
9/25/96	W	MALLARD	ANPL1	BZ	RA02B			10	P	1		2	TALL MARSH	30			1		1		
9/25/96	W	MALLARD	ANPL1	BZ	POND A-2	OU6		12	O	5		2	IMPOUNDMENT	54			1		1		
9/25/96	W	MALLARD	ANPL1	BZ	POND A-3	OU6		12	P	5		2	IMPOUNDMENT	54			53				53
9/25/96	W	MALLARD	ANPL1	BZ	POND B-2	OU6		10	N	5		2	IMPOUNDMENT	54			2		2		
10/2/96	W	MALLARD	ANPL1	BZ	POND A-4	OU6		12	O	5		2	IMPOUNDMENT	54			4				4
10/3/96	W	MALLARD	ANPL1	BZ	POND B-4	OU6		10	P	5		2	IMPOUNDMENT	54			14				14
10/3/96	W	MALLARD	ANPL1	BZ	POND A-3	OU6		12	P	5		2	IMPOUNDMENT	54			25				25
10/8/96	W	MALLARD	ANPL1	BZ				12	S	1		4	XERIC MIXED GRASSLAND	323	MESIC MIXED GRASSLAND	322	7				7
10/21/96	W	MALLARD	ANPL1	BZ	POND D-2			2	T	5		2	IMPOUNDMENT	54			4	2	2		
10/23/96	W	MALLARD	ANPL1	BZ	POND B-5	OU6		12	O	5		2	IMPOUNDMENT	54			2	2			
10/23/96	W	MALLARD	ANPL1	BZ	POND B-4	OU6		10	P	5		2	IMPOUNDMENT	54			2	1	1		
10/23/96	W	MALLARD	ANPL1	BZ	POND B-3	OU6		10	O	5		2	IMPOUNDMENT	54			4	2	2		
10/23/96	W	MALLARD	ANPL1	BZ	POND B-2	OU6		10	O	5		2	IMPOUNDMENT	54			6	2	4		
10/24/96	W	MALLARD	ANPL1	BZ	POND D-2			2	T	5		2	IMPOUNDMENT	54			3	3			
11/19/96	W	MALLARD	ANPL1	BZ	POND B-2	OU6		10	O	5		2	IMPOUNDMENT	54			2	1	1		
11/20/96	W	MALLARD	ANPL1	BZ	RA01B			13	H	5		2	IMPOUNDMENT	54			1		1		
11/20/96	W	MALLARD	ANPL1	BZ	POND B-2	OU6		10	O	5		2	IMPOUNDMENT	54			5	3	2		
11/22/96	W	MALLARD	ANPL1	BZ	POND D-2			2	T	5		2	IMPOUNDMENT	54			4	3	1		
11/25/96	W	MALLARD	ANPL1	BZ	POND A-4	OU6		12	O	5		2	IMPOUNDMENT	54			8	5	3		
11/25/96	W	MALLARD	ANPL1	BZ	POND B-5	OU6		11	O	5		2	IMPOUNDMENT	54			2	1	1		
11/25/96	W	MALLARD	ANPL1	BZ	POND B-1	OU6		10	O	5		2	IMPOUNDMENT	54			4	3	1		
11/26/96	W	MALLARD	ANPL1	BZ	POND A-4	OU6		12	O	5		2	IMPOUNDMENT	54			1		1		
11/26/96	W	MALLARD	ANPL1	BZ	POND B-5	OU6		12	O	5		2	IMPOUNDMENT	54			5	2	3		
11/26/96	W	MALLARD	ANPL1	BZ	POND B-4	OU6		10	P	5		2	IMPOUNDMENT	54			2	1	1		
11/26/96	W	MALLARD	ANPL1	BZ	POND D-2			2	T	5		2	IMPOUNDMENT	54			3	2	1		
12/18/96	W	MALLARD	ANPL1	BZ	RA01B			12	F	18		2	SHORT MARSH	20			1	1			
12/20/96	W	MALLARD	ANPL1	BZ	POND B-3	OU6		10	O	5		2	IMPOUNDMENT	54			2	1	1		
4/17/96	W	GADWALL	ANST1	BZ	POND A-2	OU6		12	N	5		2	IMPOUNDMENT	54			4	2	2		
4/25/96	W	GADWALL	ANST1	BZ	POND D-2			2	T	5		2	IMPOUNDMENT	54			6	3	3		
4/29/96	W	GADWALL	ANST1	BZ	POND D-2			2	T	5		2	IMPOUNDMENT	54			6	3	3		
5/1/96	W	GADWALL	ANST1	BZ	POND A-1	OU6		12	N	5		2	IMPOUNDMENT	54			5				5

1996 SIGNIFICANT-SPECIES DATABASE

DATE	TAXN	SPECIES	SPEC	ADMN	SITE	OP	ROADNAME	RF	RF	ACTV	ACTV	DAY	HABITAT	HAB	HABITAT2	HAB	GRUP	MALES	FEMALES	YOUNG	UNC
	GRUP		CODE	AREA	NAME	UNIT		GRIDN	GRIDE	TY1	TY2	NGHT		TYPE		TYPE2	SIZE				LASSD
5/1/96	W	GADWALL	ANST1	BZ	POND A-3	OU6		12	P	5		2	IMPOUNDMENT	54			5	3	2		
5/13/96	W	GADWALL	ANST1	BZ	POND D-2			2	T	5		2	IMPOUNDMENT	54			10	5	5		
5/30/96	W	GADWALL	ANST1	BZ	POND A-3	OU6		12	P	5		2	IMPOUNDMENT	54			2	1	1		
5/30/96	W	GADWALL	ANST1	BZ	POND D-2			2	T	5		2	IMPOUNDMENT	54			6	3	3		
6/5/96	W	GADWALL	ANST1	BZ	POND D-2			2	T	5		2	IMPOUNDMENT	54			2	1	1		
6/19/96	W	GADWALL	ANST1	BZ	POND D-2			2	T	5		2	IMPOUNDMENT	54			3	2	1		
6/26/96	W	GADWALL	ANST1	BZ	POND D-2			2	T	5		2	IMPOUNDMENT	54			2	1	1		
10/23/96	W	GADWALL	ANST1	BZ	LINDSAY			13	H	5		2	IMPOUNDMENT	54			5				5
10/24/96	W	GADWALL	ANST1	BZ	POND D-2			2	T	5		2	IMPOUNDMENT	54			8				8
3/29/96	W	GREAT BLUE HERON	ARHE1	BZ	RA04B			2	T	5		2	IMPOUNDMENT	54			1				1
5/1/96	W	GREAT BLUE HERON	ARHE1	BZ	POND B-2	OU6		10	O	5		2	IMPOUNDMENT	54			1				1
5/13/96	W	GREAT BLUE HERON	ARHE1	BZ	POND B-5	OU6		11	O	5		2	IMPOUNDMENT	54			1				1
5/22/96	W	GREAT BLUE HERON	ARHE1	BZ	BW01A			7	M	1		2	RIPARIAN WOODLAND	110			1				1
5/30/96	W	GREAT BLUE HERON	ARHE1	BZ	POND D-2			2	U	5		2	IMPOUNDMENT	54			1				1
6/17/96	W	GREAT BLUE HERON	ARHE1	BZ	BA01R			13	H	5		2	IMPOUNDMENT	54			1				1
6/26/96	W	GREAT BLUE HERON	ARHE1	BZ	IND POND	OU6		13	U	5		2	IMPOUNDMENT	54			1				1
6/26/96	W	GREAT BLUE HERON	ARHE1	BZ	POND D-2			2	T	5		2	IMPOUNDMENT MUDFLAT	93			1				1
7/16/96	W	GREAT BLUE HERON	ARHE1	BZ	POND A-3	OU6		12	O	5		2	IMPOUNDMENT	54			1				1
7/16/96	W	GREAT BLUE HERON	ARHE1	BZ	BX01R			14	G	1		2	XERIC MIXED GRASSLAND	323			1				1
7/17/96	W	GREAT BLUE HERON	ARHE1	BZ	RA01B			13	H	5		2	IMPOUNDMENT	54			1				1
7/17/96	W	GREAT BLUE HERON	ARHE1	BZ	BG02B			11	D	1		2	XERIC MIXED GRASSLAND	323			1				1
7/22/96	W	GREAT BLUE HERON	ARHE1	BZ	POND B-5	OU6		12	O	5		2	IMPOUNDMENT MUDFLAT	93			1				1
7/30/96	W	GREAT BLUE HERON	ARHE1	BZ	POND A-3	OU6		12	P	5		2	IMPOUNDMENT	54			1				1
7/30/96	W	GREAT BLUE HERON	ARHE1	BZ	POND B-5	OU6		11	O	5		2	IMPOUNDMENT	54			1				1
7/30/96	W	GREAT BLUE HERON	ARHE1	BZ	POND D-2			2	T	5		2	IMPOUNDMENT	54			1				1
8/22/96	W	GREAT BLUE HERON	ARHE1	BZ	SID			7	M	5		2	TALL MARSH	30			1				1
8/22/96	W	GREAT BLUE HERON	ARHE1	BZ	POND B-5	OU6		12	O	0		2	IMPOUNDMENT	54			1				1
8/22/96	W	GREAT BLUE HERON	ARHE1	BZ	POND B-3	OU6		10	O	5		2	IMPOUNDMENT MUDFLAT	93			1				1
8/27/96	W	GREAT BLUE HERON	ARHE1	BZ	POND A-2	OU6		12	O	5		2	IMPOUNDMENT	54			1				1
8/28/96	W	GREAT BLUE HERON	ARHE1	BZ	POND A-3	OU6		12	P	5		2	IMPOUNDMENT	54			1				1
8/28/96	W	GREAT BLUE HERON	ARHE1	BZ	POND C-1	OU5		7	N	5		2	IMPOUNDMENT	54			1				1
8/29/96	W	GREAT BLUE HERON	ARHE1	BZ	POND C-1	OU5		7	N	5		2	IMPOUNDMENT	54			1				1
9/5/96	W	GREAT BLUE HERON	ARHE1	BZ	POND B-2	OU6		10	O	0		2	TRANSMISSION LINES	510	MESIC MIXED GRASSLAND	322	1				1
9/12/96	W	GREAT BLUE HERON	ARHE1	BZ	POND C-1	OU5		7	N	5		2	IMPOUNDMENT	54			1				1
3/29/96	W	LESSER SCAUP	AYAF1	BZ	POND A-2	OU6		12	O	5		2	IMPOUNDMENT	54			14				14
3/29/96	W	LESSER SCAUP	AYAF1	BZ	POND A-3	OU6		12	P	5		2	IMPOUNDMENT	54			2				2
3/29/96	W	LESSER SCAUP	AYAF1	BZ	POND B-2	OU6		10	O	5		2	IMPOUNDMENT	54			4				4
3/29/96	W	LESSER SCAUP	AYAF1	BZ	POND A-3	OU6		12	P	5		2	IMPOUNDMENT	54			5	2	3		
3/29/96	W	LESSER SCAUP	AYAF1	BZ	POND A-2	OU6		12	O	5		2	IMPOUNDMENT	54			21		5		16
4/17/96	W	LESSER SCAUP	AYAF1	BZ	POND A-2	OU6		12	N	5		2	IMPOUNDMENT	54			5	3	2		
4/25/96	W	LESSER SCAUP	AYAF1	BZ	POND D-2			2	T	5		2	IMPOUNDMENT	54			14	9	5		2
4/29/96	W	LESSER SCAUP	AYAF1	BZ	POND B-5	OU6		12	O	5		2	IMPOUNDMENT	54			2	1	1		
4/29/96	W	LESSER SCAUP	AYAF1	BZ	POND D-2			2	T	5		2	IMPOUNDMENT	54			6	3	3		
5/1/96	W	LESSER SCAUP	AYAF1	BZ	POND B-5	OU6		12	O	5		2	IMPOUNDMENT	54			1	1			
10/24/96	W	LESSER SCAUP	AYAF1	BZ	POND D-2			2	T	5		2	IMPOUNDMENT	54			5	2	3		
11/22/96	W	LESSER SCAUP	AYAF1	BZ	POND D-1			3	R	5		2	IMPOUNDMENT	54			1		1		
11/26/96	W	LESSER SCAUP	AYAF1	BZ	POND D-1			4	R	5		2	IMPOUNDMENT	54			1		1		
2/29/96	W	REDHEAD	AYAM1	BZ	POND D-2			2	T	5		2	IMPOUNDMENT	54			63				63
3/29/96	W	REDHEAD	AYAM1	BZ	POND A-2	OU6		12	O	5		2	IMPOUNDMENT	54			6				6
3/29/96	W	REDHEAD	AYAM1	BZ	RA04B			3	R	0		2	IMPOUNDMENT	54			1				1
3/29/96	W	REDHEAD	AYAM1	BZ	RA04B			2	T	5		2	IMPOUNDMENT	54			64				64
3/29/96	W	REDHEAD	AYAM1	BZ	POND A-2	OU6		12	O	5		2	IMPOUNDMENT	54			17	12	5		
4/17/96	W	REDHEAD	AYAM1	BZ	POND A-2	OU6		12	N	5		2	IMPOUNDMENT	54			2	1	1		
4/25/96	W	REDHEAD	AYAM1	BZ	POND D-2			2	T	5		2	IMPOUNDMENT	54			2	1	1		
4/30/96	W	REDHEAD	AYAM1	BZ	RW01B			13	U	5		2	IMPOUNDMENT	54			3	2	1		
5/1/96	W	REDHEAD	AYAM1	BZ	POND A-2	OU6		12	O	5		2	IMPOUNDMENT	54			2	1	1		
5/1/96	W	REDHEAD	AYAM1	BZ	POND B-5	OU6		12	O	5		2	IMPOUNDMENT	54			4	2	2		
5/13/96	W	REDHEAD	AYAM1	BZ	POND A-2	OU6		12	M	0		2	IMPOUNDMENT	54			2	1	1		

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DATE	TAXN	SPECIES	SPEC	ADRN	SITE	OP	ROADNAME	RF	RF	ACTIV	ACTIV	DAY	HABITAT	HAB	HABITAT2	HAB	GRUP	MALES	FEMALES	YOUNG	UNC
	GRUP		CODE	AREA	NAME	UNIT		GRIDN	GRIDE	TY1	TY2	NGHT		TYPE		TYPE2	SIZE				LASSD
5/13/96	W	REDHEAD	AYAM1	BZ	POND D-2			2	T	5		2	IMPOUNDMENT	54			4	2	2		
5/21/96	W	REDHEAD	AYAM1	BZ	POND A-2	OU6		10	O	5		2	IMPOUNDMENT	54			2	1	1		
5/30/96	W	REDHEAD	AYAM1	BZ	POND A-2	OU6		12	O	5		2	IMPOUNDMENT	54			2	1	1		
5/30/96	W	REDHEAD	AYAM1	BZ	POND D-2			2	U	5		2	IMPOUNDMENT	54			10	6	4		
6/3/96	W	REDHEAD	AYAM1	BZ	POND A-2	OU6		12	O	5		2	IMPOUNDMENT	54			2	1	1		
6/3/96	W	REDHEAD	AYAM1	BZ	POND D-2			2	T	5		2	IMPOUNDMENT	54			4	2	2		
6/5/96	W	REDHEAD	AYAM1	BZ	POND D-2			2	T	5		2	IMPOUNDMENT	54			2	1	1		
6/19/96	W	REDHEAD	AYAM1	BZ	POND A-2	OU6		12	O	5		2	IMPOUNDMENT	54			1		1		
6/26/96	W	REDHEAD	AYAM1	BZ	POND D-2			2	T	5		2	IMPOUNDMENT	54			10	5	5		
6/26/96	W	REDHEAD	AYAM1	BZ	POND A-2	OU6		12	O	5		2	IMPOUNDMENT	54			1		1		
7/22/96	W	REDHEAD	AYAM1	BZ	POND D-2			2	T	5		2	IMPOUNDMENT	54			5	1	1	3	
9/17/96	W	REDHEAD	AYAM1	BZ	POND D-2			2	T	5		2	IMPOUNDMENT	54			10				10
3/27/96	W	RING-NECKED DUCK	AYCO1	BZ	BA01R			13	H			2	IMPOUNDMENT	54			10	1	9		
3/27/96	W	RING-NECKED DUCK	AYCO1	BZ	LINDSAY			13	H	5		2	IMPOUNDMENT	54			4	2	2		
3/29/96	W	RING-NECKED DUCK	AYCO1	BZ	LINDSAY			13	H	5		2	IMPOUNDMENT	54							
4/17/96	W	RING-NECKED DUCK	AYCO1	BZ	BA01R			13	G	5		2	TALL MARSH	30	IMPOUNDMENT	54	5				5
4/30/96	W	RING-NECKED DUCK	AYCO1	BZ	LINDSAY2			11	F	5		2	IMPOUNDMENT	54			2	1	1		
5/30/96	W	RING-NECKED DUCK	AYCO1	BZ	POND D-2			2	U	5		2	IMPOUNDMENT	54			1	1			
6/5/96	W	RING-NECKED DUCK	AYCO1	BZ	POND D-2			2	T	5		2	IMPOUNDMENT	54			1	1			
6/26/96	W	RING-NECKED DUCK	AYCO1	BZ	POND D-2			2	T	5		2	IMPOUNDMENT	54			2	1	1		
10/21/96	W	RING-NECKED DUCK	AYCO1	BZ	POND D-2			2	T	5		2	IMPOUNDMENT	54			5	2	2	1	
10/24/96	W	RING-NECKED DUCK	AYCO1	BZ	POND D-2			2	T	5		2	IMPOUNDMENT	54			1				
11/22/96	W	RING-NECKED DUCK	AYCO1	BZ	POND D-1			3	R	5		2	IMPOUNDMENT	54			28	1			28
1/10/96	W	CANADA GOOSE	BRCA1	BZ				4	U	1		2	RECLAIMED GRASSLAND	324			7				7
1/10/96	W	CANADA GOOSE	BRCA1	BZ	BD02B			3	T	1		2	RECLAIMED GRASSLAND	324			7				7
2/15/96	W	CANADA GOOSE	BRCA1	BZ	POND A-2	OU6		12	O	0		2	IMPOUNDMENT	54			2				2
3/29/96	W	CANADA GOOSE	BRCA1	BZ	POND A-3	OU6		12	P	0		2	IMPOUNDMENT	54			2				2
3/29/96	W	CANADA GOOSE	BRCA1	BZ	RA04B			4	R	1		2	IMPOUNDMENT	54			2	1	1		
3/29/96	W	CANADA GOOSE	BRCA1	BZ	POND C-1	OU5		7	N	0		2	IMPOUNDMENT	54			2				
3/29/96	W	CANADA GOOSE	BRCA1	BZ	POND A-3	OU6		12	P	5		2	MESIC MIXED GRASSLAND	322			2	1	1		
4/25/96	W	CANADA GOOSE	BRCA1	BZ	POND D-2			2	T	5		2	IMPOUNDMENT MUDFLAT	93			2				2
4/29/96	W	CANADA GOOSE	BRCA1	BZ	POND D-2			2	T	5		2	IMPOUNDMENT	54			4	2	2		
4/29/96	W	CANADA GOOSE	BRCA1	BZ	BS03B			5	S	1		2	RIPARIAN WOODLAND	110			1				1
4/30/96	W	CANADA GOOSE	BRCA1	BZ	RW01B			13	R	1		2	RIPARIAN WOODLAND	110			2				2
5/1/96	W	CANADA GOOSE	BRCA1	BZ	POND A-3	OU6		12	P	0		2	IMPOUNDMENT	54			2	1	1		
5/1/96	W	CANADA GOOSE	BRCA1	BZ	POND B-3	OU6		10	O	5		2	IMPOUNDMENT	54			2				
5/13/96	W	CANADA GOOSE	BRCA1	BZ	POND A-2	OU6		12	M	0		2	IMPOUNDMENT	54			1	1			
5/15/96	W	CANADA GOOSE	BRCA1	BZ	POND A-3	OU6		12	P	0		2	IMPOUNDMENT	54			2				2
5/15/96	W	CANADA GOOSE	BRCA1	BZ				12	O	5		2	MESIC MIXED GRASSLAND	322			2				2
5/15/96	W	CANADA GOOSE	BRCA1	BZ	POND A-3	OU6		10	O	0		2	IMPOUNDMENT	54			4	2	2		
5/21/96	W	CANADA GOOSE	BRCA1	BZ	POND A-3	OU6		10	O	0		2	IMPOUNDMENT	54			67				67
11/22/96	W	CANADA GOOSE	BRCA1	BZ	RA04B			1	T	5	0	2	OVERGRAZED PASTURE	325			61				61
11/22/96	W	CANADA GOOSE	BRCA1	BZ				1	T	5	0	2	OVERGRAZED PASTURE	325			12				12
11/25/96	W	CANADA GOOSE	BRCA1	BZ	BS01B			14	H	1		2	TALL UPLAND SHRUBLAND	230			40				40
11/26/96	W	CANADA GOOSE	BRCA1	BZ				4	O	1		2	XERIC MIXED GRASSLAND	323	MESIC MIXED GRASSLAND	322	83				83
11/26/96	W	CANADA GOOSE	BRCA1	BZ	POND D-2			1	T	5	0	2	OVERGRAZED PASTURE	325			83				1
3/29/96	W	BUFFLEHEAD	BUAL1	BZ	POND A-2	OU6		12	O	5		2	IMPOUNDMENT	54			1				
3/29/96	W	BUFFLEHEAD	BUAL1	BZ	POND B-5	OU6		12	O	5		2	IMPOUNDMENT	54			2				2
3/29/96	W	BUFFLEHEAD	BUAL1	BZ	RA04B			2	T	5		2	IMPOUNDMENT	54			8				8
4/25/96	W	BUFFLEHEAD	BUAL1	BZ	POND D-2			2	T	5		2	IMPOUNDMENT	54			2	1	1		
4/29/96	W	BUFFLEHEAD	BUAL1	BZ	POND D-2			2	T	5		2	IMPOUNDMENT	54			2	1	1		
5/1/96	W	BUFFLEHEAD	BUAL1	BZ	POND B-5	OU6		12	O	5		2	IMPOUNDMENT	54			1		1		
5/13/96	W	BUFFLEHEAD	BUAL1	BZ	POND A-3	OU6		12	P	5		2	IMPOUNDMENT	54			2		2		
10/21/96	W	BUFFLEHEAD	BUAL1	BZ	POND D-1			4	R	0		2	IMPOUNDMENT	54			1	1			
10/21/96	W	BUFFLEHEAD	BUAL1	BZ	POND D-2			2	T	5		2	IMPOUNDMENT	54			7	7			
10/23/96	W	BUFFLEHEAD	BUAL1	BZ	POND B-5	OU6		12	O	5		2	IMPOUNDMENT	54			6	1	5		
10/24/96	W	BUFFLEHEAD	BUAL1	BZ	POND D-2			2	T	5		2	IMPOUNDMENT	54			3	3			
10/24/96	W	BUFFLEHEAD	BUAL1	BZ	POND A-3	OU6		12	P	5		2	IMPOUNDMENT	54			1		1		
11/20/96	W	BUFFLEHEAD	BUAL1	BZ	POND A-2	OU6		12	O	5		2	IMPOUNDMENT	54			1	1			
11/21/96	W	BUFFLEHEAD	BUAL1	BZ	POND A-3	OU6		12	P	5		2	IMPOUNDMENT	54			1		1		

1996 SIGNIFICANT-SPECIES DATABASE

DATE	TAXN	SPECIES	SPEC	ADMN	SITE	OP	ROADNAME	RF	RF	ACTIV	ACTIV	DAY	HABITAT	HAB	HABITAT2	HAB	GRUP	MALES	FEMALES	YOUNG	UNC
	GROUP		CODE	AREA	NAME	UNIT		GRIDN	GRIDE	TY1	TY2	NGHT		TYPE		TYPE2	SIZE				LASSD
11/22/96	W	BUFFLEHEAD	BUAL1	BZ	POND D-1			4	R	5		2	IMPOUNDMENT	54			3	1	2		
11/22/96	W	BUFFLEHEAD	BUAL1	BZ	POND D-2			2	T	5		2	IMPOUNDMENT	54			2	1	1		
11/22/96	W	BUFFLEHEAD	BUAL1	BZ	POND D-1			3	R	5		2	IMPOUNDMENT	54			2	1	1		
11/22/96	W	BUFFLEHEAD	BUAL1	BZ	POND D-2			2	T	5		2	IMPOUNDMENT	54			2	1	1		
11/25/96	W	BUFFLEHEAD	BUAL1	BZ	POND B-5	OU6		12	O	5		2	IMPOUNDMENT	54			7	1	6		
11/26/96	W	BUFFLEHEAD	BUAL1	BZ	POND B-5	OU6		12	O	5		2	IMPOUNDMENT	54			5		5		
11/26/96	W	BUFFLEHEAD	BUAL1	BZ	POND D-2			2	T	5		2	IMPOUNDMENT	54			2	1	1		
11/26/96	W	BUFFLEHEAD	BUAL1	BZ	POND D-1			3	R	5		2	IMPOUNDMENT	54			1		1		
1/31/96	W	COMMON GOLDENEYE	BUCL1	BZ	POND B-3	OU6		10	O	5		2	IMPOUNDMENT	54			1				1
2/8/96	W	COMMON GOLDENEYE	BUCL1	BZ	POND D-2			2	T			2	IMPOUNDMENT	54			6	3	3		
2/29/96	W	COMMON GOLDENEYE	BUCL1	BZ	POND D-2			2	T	5		2	IMPOUNDMENT	54			2				2
11/22/96	W	COMMON GOLDENEYE	BUCL1	BZ	POND D-1			4	R	5		2	IMPOUNDMENT	54			1		1		
11/26/96	W	COMMON GOLDENEYE	BUCL1	BZ	POND D-1			4	R	5		2	IMPOUNDMENT	54			2	1	1		
3/29/96	W	AMERICAN COOT	FUAM1	BZ	RA04B			2	T	5		2	IMPOUNDMENT	54			4				4
4/25/96	W	AMERICAN COOT	FUAM1	BZ	POND D-2			2	T	5		2	IMPOUNDMENT	54			17				17
4/29/96	W	AMERICAN COOT	FUAM1	BZ	POND D-2			2	T	5		2	IMPOUNDMENT	54			17				17
5/13/96	W	AMERICAN COOT	FUAM1	BZ	POND D-2			2	T	5		2	IMPOUNDMENT	54			20				20
5/13/96	W	AMERICAN COOT	FUAM1	BZ	POND D-1			4	R	5		2	IMPOUNDMENT	54			1				1
5/30/96	W	AMERICAN COOT	FUAM1	BZ	POND A-2	OU6		12	O	5		2	IMPOUNDMENT	54			1				1
5/30/96	W	AMERICAN COOT	FUAM1	BZ	POND D-1			3	R	5		2	IMPOUNDMENT	54			2				2
5/30/96	W	AMERICAN COOT	FUAM1	BZ	POND D-2			2	T	5		2	IMPOUNDMENT	54			15				15
6/5/96	W	AMERICAN COOT	FUAM1	BZ	POND D-2			2	T	5		2	IMPOUNDMENT	54			7				7
6/19/96	W	AMERICAN COOT	FUAM1	BZ	POND D-2			2	T	5		2	IMPOUNDMENT	54			10			2	8
6/28/96	W	AMERICAN COOT	FUAM1	BZ	POND A-2	OU6		12	O	5		2	IMPOUNDMENT	54			1				1
6/28/96	W	AMERICAN COOT	FUAM1	BZ	POND A-1	OU6		12	N	5		2	IMPOUNDMENT	54			1				1
6/26/96	W	AMERICAN COOT	FUAM1	BZ	POND D-1			4	R	5		2	IMPOUNDMENT	54			19			15	4
6/26/96	W	AMERICAN COOT	FUAM1	BZ	POND D-2			2	T	5		2	IMPOUNDMENT	54			10			4	6
6/26/96	W	AMERICAN COOT	FUAM1	BZ	POND D-2			2	U	5		2	IMPOUNDMENT	54			10			5	5
7/16/96	W	AMERICAN COOT	FUAM1	BZ	POND A-2	OU6		12	O	5		2	IMPOUNDMENT	54			1				1
7/22/96	W	AMERICAN COOT	FUAM1	BZ	POND A-2	OU6		12	O	5		2	IMPOUNDMENT	54			1				1
7/25/96	W	AMERICAN COOT	FUAM1	BZ	POND D-1			4	R	5		2	IMPOUNDMENT	54			5				5
7/25/96	W	AMERICAN COOT	FUAM1	BZ	POND D-2			2	T	5		2	IMPOUNDMENT	54			22				22
7/29/96	W	AMERICAN COOT	FUAM1	BZ	POND D-2			2	T	5		2	IMPOUNDMENT	54			12			6	6
7/29/96	W	AMERICAN COOT	FUAM1	BZ	POND D-1			4	R	5		2	IMPOUNDMENT	54			5			2	3
7/30/96	W	AMERICAN COOT	FUAM1	BZ	POND A-2	OU6		12	O	5		2	IMPOUNDMENT	54			2				2
7/30/96	W	AMERICAN COOT	FUAM1	BZ	POND D-1			4	R	5		2	IMPOUNDMENT	54			10			8	2
7/30/96	W	AMERICAN COOT	FUAM1	BZ	POND D-2			2	T	5		2	IMPOUNDMENT	54			23			19	4
8/8/96	W	AMERICAN COOT	FUAM1	BZ	POND D-2			2	T	5		2	IMPOUNDMENT	54			25			15	10
8/22/96	W	AMERICAN COOT	FUAM1	BZ	POND D-2			2	T	5		2	IMPOUNDMENT	54			31				31
8/22/96	W	AMERICAN COOT	FUAM1	BZ	POND D-1			4	R	5		2	IMPOUNDMENT	54			6			3	3
8/22/96	W	AMERICAN COOT	FUAM1	BZ	POND A-2	OU6		12	O	5		2	IMPOUNDMENT	54			1				1
8/28/96	W	AMERICAN COOT	FUAM1	BZ	POND A-2	OU6		12	O	5		2	IMPOUNDMENT	54			4			2	2
8/29/96	W	AMERICAN COOT	FUAM1	BZ	POND D-1			4	R	5		2	IMPOUNDMENT	54			9				9
8/29/96	W	AMERICAN COOT	FUAM1	BZ	POND D-2			2	T	5		2	IMPOUNDMENT	54			36				36
9/17/96	W	AMERICAN COOT	FUAM1	BZ	POND D-1			4	R	5		2	IMPOUNDMENT	54			4				4
9/17/96	W	AMERICAN COOT	FUAM1	BZ	POND D-2			2	T	5		2	IMPOUNDMENT	54			13				13
9/19/96	W	AMERICAN COOT	FUAM1	BZ	POND A-3	OU6		12	P	5		2	IMPOUNDMENT	54			1				1
9/24/96	W	AMERICAN COOT	FUAM1	BZ	POND C-2	OU5		7	P	5		2	IMPOUNDMENT	54			2				2
9/25/96	W	AMERICAN COOT	FUAM1	BZ	POND A-2	OU6		12	O	5		2	IMPOUNDMENT	54			1				1
10/3/96	W	AMERICAN COOT	FUAM1	BZ	POND A-2	OU6		12	O	5		2	IMPOUNDMENT	54			3				3
10/21/96	W	AMERICAN COOT	FUAM1	BZ	POND D-2			2	U	5		2	IMPOUNDMENT	54			7				7
10/23/96	W	AMERICAN COOT	FUAM1	BZ	RA01B			13	H	5		2	IMPOUNDMENT	54			1				1
10/23/96	W	AMERICAN COOT	FUAM1	BZ	POND A-2	OU6		12	O	5		2	IMPOUNDMENT	54			1				1
10/23/96	W	AMERICAN COOT	FUAM1	BZ	LINDSAY			13	H	5		2	IMPOUNDMENT	54			1				1
10/24/96	W	AMERICAN COOT	FUAM1	BZ	POND D-2			2	T	5		2	IMPOUNDMENT	54			4			1	3
11/26/96	W	COMMON MERGANSER	MEME1	BZ	POND C-1	OU5		7	N	0		2	IMPOUNDMENT	54			1			1	
5/13/96	W	BLACK-CROWNED NIGHT HERON	NYNY1	BZ	POND D-1			3	S	0		2	IMPOUNDMENT	54			4			2	2
5/30/96	W	BLACK-CROWNED NIGHT HERON	NYNY1	BZ	POND C-1	OU6		7	N	5		2	IMPOUNDMENT	54			1				1

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DATE	TAXN	SPECIES	SPEC	ADMN	SITE	OP	ROADNAME	RF	RF	ACTV	ACTV	DAY	HABITAT	HAB	HABITAT2	HAB	GRUP	MALES	FEMALES	YOUNG	UNC
	GRUP		CODE	AREA	NAME	UNIT		GRIDN	GRIDE	TY1	TY2	NGHT		TYPE		TYPE2	SIZE				LASSD
5/30/96	W	BLACK-CROWNED NIGHT HERON	NYNY1	BZ	POND D-1			3	S	0		2	RIPARIAN WOODLAND	110						1	2
5/30/96	W	BLACK-CROWNED NIGHT HERON	NYNY1	BZ	POND A-2	OU6		12	O	5		2	ROCK AND GRAVEL PILES	530							1
6/4/96	W	BLACK-CROWNED NIGHT HERON	NYNY1	BZ	POND C-1	OU5		7	N	5		2	IMPOUNDMENT	54							1
6/19/96	W	BLACK-CROWNED NIGHT HERON	NYNY1	BZ	POND D-1			3	S	0		2	RIPARIAN WOODLAND	110							1
6/26/96	W	BLACK-CROWNED NIGHT HERON	NYNY1	BZ	POND C-1	OU5		7	N	5		2	IMPOUNDMENT	54	IMPOUNDMENT MUDFLAT	93	2				2
6/26/96	W	BLACK-CROWNED NIGHT HERON	NYNY1	BZ	POND D-1			3	S	0		2	RIPARIAN WOODLAND	110							1
5/30/96	W	RUDDY DUCK	OXJA1	BZ	POND D-2			2	T	5		2	IMPOUNDMENT	54				2	1	1	
6/5/96	W	RUDDY DUCK	OXJA1	BZ	POND D-2			2	T	5		2	IMPOUNDMENT	54				2	1	1	
6/11/96	W	RUDDY DUCK	OXJA1	BZ	POND D-2			2	T	5	0	2	IMPOUNDMENT	54				2	1	2	
6/19/96	W	RUDDY DUCK	OXJA1	BZ	POND D-2			2	T	5		2	IMPOUNDMENT	54				4	1	3	
6/26/96	W	RUDDY DUCK	OXJA1	BZ	POND D-2			2	T	5		2	IMPOUNDMENT	54				3	1	2	
7/25/96	W	RUDDY DUCK	OXJA1	BZ	POND D-2			2	T	5		2	IMPOUNDMENT	54				2	1	1	
8/22/96	W	RUDDY DUCK	OXJA1	BZ	POND D-2			2	T	5		2	IMPOUNDMENT	54				7	1	1	5
9/17/96	W	RUDDY DUCK	OXJA1	BZ	POND D-2			2	T	0		2	IMPOUNDMENT	54				6	1	1	4
10/21/96	W	RUDDY DUCK	OXJA1	BZ	POND D-2			2	T	5		2	IMPOUNDMENT	54				4	1	1	2
10/24/96	W	RUDDY DUCK	OXJA1	BZ	POND D-2			2	T	5		2	IMPOUNDMENT	54							
6/6/96	W	AMERICAN WHITE PELICAN	PEER1	BZ				13	U	1		2	MESIC MIXED GRASSLAND	322	RIPARIAN WOODLAND	110	14				14
4/17/96	W	DOUBLE-CRESTED CORMORANT	PHAU1	EA	SNAG	OU3	ALKIRE			0		2	RIPARIAN WOODLAND	110	IMPOUNDMENT	54	12				12
5/9/96	W	DOUBLE-CRESTED CORMORANT	PHAU1	BZ	POND A-3	OU8		12	P	5		2	IMPOUNDMENT	54				1			1
5/13/96	W	DOUBLE-CRESTED CORMORANT	PHAU1	BZ	POND A-3	OU6		12	P	5		2	IMPOUNDMENT	54				1			1
6/10/96	W	DOUBLE-CRESTED CORMORANT	PHAU1	BZ	BX01B			11	S	1		2	XERIC MIXED GRASSLAND	323				1			1
6/11/96	W	DOUBLE-CRESTED CORMORANT	PHAU1	BZ	BS03B			4	T	1		2	RIPARIAN SHRUBLAND-AMORPHA	211				1			1
6/19/96	W	DOUBLE-CRESTED CORMORANT	PHAU1	BZ	BD02B			4	T	1		2	RECLAIMED GRASSLAND	324				1			1
6/25/96	W	DOUBLE-CRESTED CORMORANT	PHAU1	BZ	BS01B			14	F	1		2	TALL UPLAND SHRUBLAND	230				1			1
6/26/96	W	DOUBLE-CRESTED CORMORANT	PHAU1	BZ	POND A-3	OU6		12	P	0		2	IMPOUNDMENT	54				3			3
7/16/96	W	DOUBLE-CRESTED CORMORANT	PHAU1	BZ	POND A-3	OU6		12	O	5		2	IMPOUNDMENT	54				1			1
7/22/96	W	DOUBLE-CRESTED CORMORANT	PHAU1	BZ	POND A-3	OU6		12	P	5		2	IMPOUNDMENT	54				1			1
7/22/96	W	DOUBLE-CRESTED CORMORANT	PHAU1	BZ	POND B-5	OU6		12	Q	5		2	IMPOUNDMENT	54				2			2
7/29/96	W	DOUBLE-CRESTED CORMORANT	PHAU1	BZ	POND C-2	OU5		7	P	5		2	IMPOUNDMENT	54				1			1
7/30/96	W	DOUBLE-CRESTED CORMORANT	PHAU1	BZ	POND B-5	OU6		11	Q	5		2	IMPOUNDMENT	54				2			2
8/8/96	W	DOUBLE-CRESTED CORMORANT	PHAU1	BZ	POND D-2			2	T	5		2	IMPOUNDMENT	54				1			1
8/22/96	W	DOUBLE-CRESTED CORMORANT	PHAU1	BZ	POND D-2			2	T	0		2	IMPOUNDMENT	54	RIPARIAN WOODLAND	110	2				2
8/22/96	W	DOUBLE-CRESTED CORMORANT	PHAU1	BZ	POND A-2	OU6		12	O	5		2	IMPOUNDMENT	54				1			1
8/22/96	W	DOUBLE-CRESTED CORMORANT	PHAU1	BZ	POND A-3	OU6		12	P	5		2	IMPOUNDMENT	54				1			1
8/22/96	W	DOUBLE-CRESTED CORMORANT	PHAU1	BZ	POND A-2	OU6		12	O	5		2	IMPOUNDMENT	54				2			2
8/27/96	W	DOUBLE-CRESTED CORMORANT	PHAU1	BZ	POND B-5	OU6		12	Q	5		2	IMPOUNDMENT	54				2			2
8/28/96	W	DOUBLE-CRESTED CORMORANT	PHAU1	BZ	POND B-5	OU6		12	Q	5		2	IMPOUNDMENT	54				2			2
8/29/96	W	DOUBLE-CRESTED CORMORANT	PHAU1	BZ	POND D-2			2	T	5		2	IMPOUNDMENT	54				1			1
8/9/96	W	WHITE-FACED IBIS	PLCH1	BZ	POND D-2			2	T	5		2	IMPOUNDMENT MUDFLAT	93				2			2
10/25/96	W	EARED GREBE	POPI1	BZ	POND C-1	OU5		7	N	0		2	IMPOUNDMENT	54				1			1
3/29/96	W	PIED-BILLED GREBE	POPO1	BZ	RA04B			2	T	5		2	IMPOUNDMENT	54				1			1
4/25/96	W	PIED-BILLED GREBE	POPO1	BZ	POND D-2			2	T	5		2	IMPOUNDMENT	54				2			2
4/29/96	W	PIED-BILLED GREBE	POPO1	BZ				13	S	18		2	RIPARIAN WOODLAND	110	RIPARIAN SHRUBLAND-SALIX	212	1				1
4/29/96	W	PIED-BILLED GREBE	POPO1	BZ	POND B-5	OU6		12	Q	5		2	IMPOUNDMENT	54				1			1
4/29/96	W	PIED-BILLED GREBE	POPO1	BZ	POND D-2			2	T	5		2	IMPOUNDMENT	54				8	1	1	6
5/1/96	W	PIED-BILLED GREBE	POPO1	BZ	POND A-2	OU6		12	O	5		2	IMPOUNDMENT	54				2	1	1	
5/1/96	W	PIED-BILLED GREBE	POPO1	BZ	POND A-3	OU6		12	P	5		2	IMPOUNDMENT	54				1			1
5/1/96	W	PIED-BILLED GREBE	POPO1	BZ	POND B-5	OU6		12	Q	5		2	IMPOUNDMENT	54				1			1
5/13/96	W	PIED-BILLED GREBE	POPO1	BZ	POND A-3	OU6		12	P	5		2	IMPOUNDMENT	54				1			1
5/13/96	W	PIED-BILLED GREBE	POPO1	BZ	POND A-2	OU6		12	O	5		2	IMPOUNDMENT	54				1			1
5/13/96	W	PIED-BILLED GREBE	POPO1	BZ	POND C-1	OU5		7	N	5		2	IMPOUNDMENT	54				1			1
5/13/96	W	PIED-BILLED GREBE	POPO1	BZ	POND C-2	OU5		7	P	5		2	IMPOUNDMENT	54				1			1
5/13/96	W	PIED-BILLED GREBE	POPO1	BZ	POND D-2			2	T	5		2	IMPOUNDMENT	54				6			6
5/13/96	W	PIED-BILLED GREBE	POPO1	BZ	POND D-1			3	R	5		2	IMPOUNDMENT	54				1			1
5/22/96	W	PIED-BILLED GREBE	POPO1	BZ	POND C-1	OU5		7	P	5		2	IMPOUNDMENT	54				2	1	1	
5/30/96	W	PIED-BILLED GREBE	POPO1	BZ	POND C-2	OU5		7	P	5		2	IMPOUNDMENT	54				2			2
5/30/96	W	PIED-BILLED GREBE	POPO1	BZ	POND C-1	OU6		7	N	5		2	IMPOUNDMENT	54				1			1
5/30/96	W	PIED-BILLED GREBE	POPO1	BZ	POND B-2	OU6		10	O	5		2	IMPOUNDMENT	54				1			1
5/30/96	W	PIED-BILLED GREBE	POPO1	BZ	POND D-1			4	R	5		2	IMPOUNDMENT	54				2			2

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DATE	TAXN	SPECIES	SPEC	ADMN	SITE	OP	ROADNAME	RF	RF	ACTIV	ACTIV	DAY	HABITAT	HAB	HABITAT2	HAB	GRUP	MALES	FEMALES	YOUNG	UNC
	GROUP		CODE	AREA	NAME	UNIT		GRIDN	GRIDE	TY1	TY2	NGHT		TYPE		TYPE2	SIZE				LAUSD
5/30/96	W	PIED-BILLED GREBE	POPO1	BZ	POND D-2			2	U	5		2	IMPOUNDMENT	54			2				2
6/3/96	W	PIED-BILLED GREBE	POPO1	BZ	POND A-2	OU6		12	O	5		2	IMPOUNDMENT	54			1				1
6/4/96	W	PIED-BILLED GREBE	POPO1	BZ	POND C-1	OU5		7	N	5		2	IMPOUNDMENT	54			2				2
6/5/96	W	PIED-BILLED GREBE	POPO1	BZ	POND D-2			2	T	5		2	IMPOUNDMENT	54			5				5
6/19/96	W	PIED-BILLED GREBE	POPO1	BZ	POND D-2			2	T	5		2	IMPOUNDMENT	54			2				2
6/19/96	W	PIED-BILLED GREBE	POPO1	BZ	POND C-1	OU5		7	P	5		2	IMPOUNDMENT	54			1				1
6/26/96	W	PIED-BILLED GREBE	POPO1	BZ	POND A-2	OU6		12	O	5		2	IMPOUNDMENT	54			1				1
6/26/96	W	PIED-BILLED GREBE	POPO1	BZ	POND D-1			4	R	5		2	IMPOUNDMENT	54			2			1	1
6/26/96	W	PIED-BILLED GREBE	POPO1	BZ	POND D-2			2	U	5		2	IMPOUNDMENT	54			3			2	1
6/26/96	W	PIED-BILLED GREBE	POPO1	BZ	POND D-2			2	T	0		2	IMPOUNDMENT MUDFLAT	93			2				2
7/15/96	W	PIED-BILLED GREBE	POPO1	BZ	POND C-1	OU5		7	N	5		2	IMPOUNDMENT	54			8			5	3
7/16/96	W	PIED-BILLED GREBE	POPO1	BZ	POND C-1	OU5		7	N	5		2	IMPOUNDMENT	54			9				9
7/22/96	W	PIED-BILLED GREBE	POPO1	BZ	POND A-1	OU6		12	N	5		2	IMPOUNDMENT	54			1				1
7/22/96	W	PIED-BILLED GREBE	POPO1	BZ	POND A-2	OU6		12	O	5		2	IMPOUNDMENT	54			6				6
7/25/96	W	PIED-BILLED GREBE	POPO1	BZ	POND C-1	OU5		7	N	5		2	IMPOUNDMENT	54			1			1	
7/25/96	W	PIED-BILLED GREBE	POPO1	BZ	POND D-1			3	R	5		2	IMPOUNDMENT	54			7				7
7/25/96	W	PIED-BILLED GREBE	POPO1	BZ	POND D-2			2	T	5		2	IMPOUNDMENT	54			20				20
7/29/96	W	PIED-BILLED GREBE	POPO1	BZ	POND C-1	OU5		7	N	5		2	IMPOUNDMENT	54			7			7	
7/29/96	W	PIED-BILLED GREBE	POPO1	BZ	POND C-2	OU5		7	P	5		2	IMPOUNDMENT	54			1				1
7/29/96	W	PIED-BILLED GREBE	POPO1	BZ	POND D-2			2	T	5		2	IMPOUNDMENT	54			7				7
7/29/96	W	PIED-BILLED GREBE	POPO1	BZ	POND D-1			4	R	5		2	IMPOUNDMENT	54			9				9
7/30/96	W	PIED-BILLED GREBE	POPO1	BZ	LANDFILL	OU7		13	L	5		2	IMPOUNDMENT	54			6		1	5	
7/30/96	W	PIED-BILLED GREBE	POPO1	BZ	POND A-2	OU6		12	O	5		2	IMPOUNDMENT	54			3				3
7/30/96	W	PIED-BILLED GREBE	POPO1	BZ	POND C-2	OU5		7	P	5		2	IMPOUNDMENT	54			11				11
7/30/96	W	PIED-BILLED GREBE	POPO1	BZ	POND C-1	OU5		7	N	5		2	IMPOUNDMENT	54			8				8
7/30/96	W	PIED-BILLED GREBE	POPO1	BZ	POND D-1			4	R	5		2	IMPOUNDMENT	54			13			8	5
7/30/96	W	PIED-BILLED GREBE	POPO1	BZ	POND D-2			2	T	5		2	IMPOUNDMENT	54			11			7	4
8/8/96	W	PIED-BILLED GREBE	POPO1	BZ	POND C-1	OU5		7	N	5		2	IMPOUNDMENT	54			1				1
8/22/96	W	PIED-BILLED GREBE	POPO1	BZ	LANDFILL	OU7		13	L	5		2	IMPOUNDMENT	54			3			3	
8/22/96	W	PIED-BILLED GREBE	POPO1	BZ	POND C-2	OU5		7	P	5		2	IMPOUNDMENT	54			1				1
8/22/96	W	PIED-BILLED GREBE	POPO1	BZ	POND D-2			2	T	5		2	IMPOUNDMENT	54			10				10
8/22/96	W	PIED-BILLED GREBE	POPO1	BZ	POND D-1			3	R	5		2	IMPOUNDMENT	54			5			2	3
8/22/96	W	PIED-BILLED GREBE	POPO1	BZ	POND A-2	OU6		12	O	5		2	IMPOUNDMENT	54			6			3	3
8/27/96	W	PIED-BILLED GREBE	POPO1	BZ	POND A-2	OU6		12	O	5		2	IMPOUNDMENT	54			9			8	1
8/28/96	W	PIED-BILLED GREBE	POPO1	BZ	POND A-2	OU6		12	O	5		2	IMPOUNDMENT	54			7			5	2
8/28/96	W	PIED-BILLED GREBE	POPO1	BZ	POND A-3	OU6		12	P	5		2	IMPOUNDMENT	54			1				1
8/29/96	W	PIED-BILLED GREBE	POPO1	BZ	POND D-1			3	R	5		2	IMPOUNDMENT	54			3				3
8/29/96	W	PIED-BILLED GREBE	POPO1	BZ	POND D-2			2	T	5		2	IMPOUNDMENT	54			11				11
9/17/96	W	PIED-BILLED GREBE	POPO1	BZ	POND D-1			3	R	5		2	IMPOUNDMENT	54			5				5
9/17/96	W	PIED-BILLED GREBE	POPO1	BZ	POND D-2			2	T	5		2	IMPOUNDMENT	54			4				4
9/24/96	W	PIED-BILLED GREBE	POPO1	BZ	POND C-2	OU5		7	P	5		2	IMPOUNDMENT	54			1				1
9/25/96	W	PIED-BILLED GREBE	POPO1	BZ	POND A-2	OU6		12	O	5		2	IMPOUNDMENT	54			1				1
9/25/96	W	PIED-BILLED GREBE	POPO1	BZ	POND A-3	OU6		12	P	5		2	IMPOUNDMENT	54			4				3
10/21/96	W	PIED-BILLED GREBE	POPO1	BZ	POND D-1			4	R	5		2	IMPOUNDMENT	54			2				2
10/21/96	W	PIED-BILLED GREBE	POPO1	BZ	POND D-2			2	T	5		2	IMPOUNDMENT	54			4				4
10/21/96	W	PIED-BILLED GREBE	POPO1	BZ	POND C-2	OU5		7	P	5		2	IMPOUNDMENT	54			2				2
10/21/96	W	PIED-BILLED GREBE	POPO1	BZ	POND C-1	OU5		7	N	5		2	IMPOUNDMENT	54			2				2
10/24/96	W	PIED-BILLED GREBE	POPO1	BZ	POND D-2			2	T	5		2	IMPOUNDMENT	54			5				5
11/22/96	W	PIED-BILLED GREBE	POPO1	BZ	POND C-1	OU5		7	N	0		2	IMPOUNDMENT	54			1				1
11/22/96	W	PIED-BILLED GREBE	POPO1	BZ	POND D-1			3	R	5		2	IMPOUNDMENT	54			1				1
11/22/96	W	PIED-BILLED GREBE	POPO1	BZ	POND C-1	OU5		7	N	5		2	IMPOUNDMENT	54			1				1
11/26/96	W	PIED-BILLED GREBE	POPO1	BZ	POND D-1			3	R	5		2	IMPOUNDMENT	54			2				2

Appendix D

Area Use Summaries

BIG GAME MAMMAL AREA USE SUMMARY FOR 1996

	SPECIES NAME	SPEC CODE	GRID N	GRID E	GROUP SIZE
SPRING					
	ELK	CEELI	17	L	1
	MULE DEER	ODHEI	6	L	1
	MULE DEER	ODHEI	15	G	1
	MULE DEER	ODHEI	16	L	1
	MULE DEER	ODHEI	13	N	2
	MULE DEER	ODHEI	5	I	3
	MULE DEER	ODHEI	7	R	3
	MULE DEER	ODHEI	9	D	3
	MULE DEER	ODHEI	8	C	4
	MULE DEER	ODHEI	14	F	4
	MULE DEER	ODHEI	15	K	4
	MULE DEER	ODHEI	11	J	5
	MULE DEER	ODHEI	14	I	6
	MULE DEER	ODHEI	15	I	6
	MULE DEER	ODHEI	15	L	6
	MULE DEER	ODHEI	11	E	7
	MULE DEER	ODHEI	12	R	8
	MULE DEER	ODHEI	14	G	8
	MULE DEER	ODHEI	6	I	10
	MULE DEER	ODHEI	8	N	10
	MULE DEER	ODHEI	6	J	11
	MULE DEER	ODHEI	13	K	11
	MULE DEER	ODHEI	12	E	12
	MULE DEER	ODHEI	15	Q	12
	MULE DEER	ODHEI	8	F	13
	MULE DEER	ODHEI	15	T	15
	MULE DEER	ODHEI	3	K	16
	MULE DEER	ODHEI	7	I	16
	MULE DEER	ODHEI	3	L	18
	MULE DEER	ODHEI	14	P	19
	MULE DEER	ODHEI	13	G	20
	MULE DEER	ODHEI	5	K	24
	MULE DEER	ODHEI	13	E	26
	MULE DEER	ODHEI	16	K	27
	MULE DEER	ODHEI	16	N	28
	MULE DEER	ODHEI	15	J	29
	WHITE-TAILED DEER	ODVII	7	R	7
	WHITE-TAILED DEER	ODVII	14	P	1
	WHITE-TAILED DEER	ODVII	15	T	1
SUMMER					
	MULE DEER	ODHEI	2	M	1
	MULE DEER	ODHEI	3	N	1
	MULE DEER	ODHEI	3	O	1
	MULE DEER	ODHEI	7	H	1
	MULE DEER	ODHEI	7	J	1
	MULE DEER	ODHEI	7	S	1
	MULE DEER	ODHEI	9	L	1

BIG GAME MAMMAL AREA USE SUMMARY FOR 1996

SPECIES NAME	SPEC CODE	GRID N	GRID E	GROUP SIZE
MULE DEER	ODHE1	13	E	1
MULE DEER	ODHE1	13	P	1
MULE DEER	ODHE1	14	H	1
MULE DEER	ODHE1	15	H	1
MULE DEER	ODHE1	15	I	1
MULE DEER	ODHE1	17	I	1
MULE DEER	ODHE1	2	U	2
MULE DEER	ODHE1	3	P	2
MULE DEER	ODHE1	4	L	2
MULE DEER	ODHE1	4	S	2
MULE DEER	ODHE1	5	J	2
MULE DEER	ODHE1	5	O	2
MULE DEER	ODHE1	5	P	2
MULE DEER	ODHE1	6	O	2
MULE DEER	ODHE1	7	K	2
MULE DEER	ODHE1	8	M	2
MULE DEER	ODHE1	10	F	2
MULE DEER	ODHE1	10	O	2
MULE DEER	ODHE1	15	L	2
MULE DEER	ODHE1	2	J	3
MULE DEER	ODHE1	2	K	3
MULE DEER	ODHE1	6	H	3
MULE DEER	ODHE1	7	F	3
MULE DEER	ODHE1	8	P	3
MULE DEER	ODHE1	10	I	3
MULE DEER	ODHE1	13	I	3
MULE DEER	ODHE1	13	L	3
MULE DEER	ODHE1	13	Q	3
MULE DEER	ODHE1	14	I	3
MULE DEER	ODHE1	14	T	3
MULE DEER	ODHE1	15	J	3
MULE DEER	ODHE1	15	K	3
MULE DEER	ODHE1	5	L	4
MULE DEER	ODHE1	6	M	4
MULE DEER	ODHE1	7	M	4
MULE DEER	ODHE1	8	D	4
MULE DEER	ODHE1	13	R	4
MULE DEER	ODHE1	14	J	4
MULE DEER	ODHE1	6	N	5
MULE DEER	ODHE1	7	N	5
MULE DEER	ODHE1	9	F	5
MULE DEER	ODHE1	15	M	5
MULE DEER	ODHE1	3	K	6
MULE DEER	ODHE1	4	I	6
MULE DEER	ODHE1	5	I	6
MULE DEER	ODHE1	7	L	6
MULE DEER	ODHE1	15	N	6
MULE DEER	ODHE1	8	L	7
MULE DEER	ODHE1	11	S	7
MULE DEER	ODHE1	12	E	7

BIG GAME MAMMAL AREA USE SUMMARY FOR 1996

SPECIES NAME	SPEC CODE	GRID N	GRID E	GROUP SIZE
MULE DEER	ODHEI	12	O	7
MULE DEER	ODHEI	13	H	7
MULE DEER	ODHEI	16	J	7
MULE DEER	ODHEI	16	L	7
MULE DEER	ODHEI	14	K	8
MULE DEER	ODHEI	8	O	10
MULE DEER	ODHEI	5	Q	11
MULE DEER	ODHEI	6	K	11
MULE DEER	ODHEI	15	G	11
MULE DEER	ODHEI	7	I	13
MULE DEER	ODHEI	17	M	14
MULE DEER	ODHEI	12	N	16
MULE DEER	ODHEI	11	Q	17
MULE DEER	ODHEI	14	F	17
MULE DEER	ODHEI	7	O	19
MULE DEER	ODHEI	14	G	19
MULE DEER	ODHEI	7	G	20
MULE DEER	ODHEI	13	F	30
MULE X WHITE-TAILED DEER	HEXVI	16	L	1
WHITE-TAILED DEER	ODVII	2	J	1
WHITE-TAILED DEER	ODVII	5	O	1
WHITE-TAILED DEER	ODVII	5	Q	1
WHITE-TAILED DEER	ODVII	11	P	1
WHITE-TAILED DEER	ODVII	11	S	1
WHITE-TAILED DEER	ODVII	5	P	2
WHITE-TAILED DEER	ODVII	7	R	2
WHITE-TAILED DEER	ODVII	14	J	2
WHITE-TAILED DEER	ODVII	4	T	3
WHITE-TAILED DEER	ODVII	5	T	3
WHITE-TAILED DEER	ODVII	12	N	3
FALL ELK	CEELI	2	T	1
MULE DEER	ODHEI	5	R	1
MULE DEER	ODHEI	6	I	1
MULE DEER	ODHEI	6	P	1
MULE DEER	ODHEI	6	R	1
MULE DEER	ODHEI	7	C	1
MULE DEER	ODHEI	7	F	1
MULE DEER	ODHEI	7	K	1
MULE DEER	ODHEI	8	J	1
MULE DEER	ODHEI	8	O	1
MULE DEER	ODHEI	10	D	1
MULE DEER	ODHEI	10	E	1
MULE DEER	ODHEI	10	I	1
MULE DEER	ODHEI	11	I	1
MULE DEER	ODHEI	13	L	1
MULE DEER	ODHEI	13	O	1

BIG GAME MAMMAL AREA USE SUMMARY FOR 1996

SPECIES NAME	SPEC CODE	GRID N	GRID E	GROUP SIZE
MULE DEER	ODHEI	15	H	1
MULE DEER	ODHEI	15	K	1
MULE DEER	ODHEI	17	K	1
MULE DEER	ODHEI	4	G	2
MULE DEER	ODHEI	5	G	2
MULE DEER	ODHEI	5	Q	2
MULE DEER	ODHEI	7	E	2
MULE DEER	ODHEI	7	M	2
MULE DEER	ODHEI	8	Q	2
MULE DEER	ODHEI	11	F	2
MULE DEER	ODHEI	11	M	2
MULE DEER	ODHEI	13	J	2
MULE DEER	ODHEI	16	K	2
MULE DEER	ODHEI	6	T	3
MULE DEER	ODHEI	9	G	3
MULE DEER	ODHEI	13	H	3
MULE DEER	ODHEI	15	Q	3
MULE DEER	ODHEI	5	M	4
MULE DEER	ODHEI	6	J	4
MULE DEER	ODHEI	10	N	4
MULE DEER	ODHEI	10	O	4
MULE DEER	ODHEI	15	J	4
MULE DEER	ODHEI	17	L	4
MULE DEER	ODHEI	4	D	5
MULE DEER	ODHEI	6	O	5
MULE DEER	ODHEI	12	H	5
MULE DEER	ODHEI	3	N	6
MULE DEER	ODHEI	4	J	6
MULE DEER	ODHEI	7	H	6
MULE DEER	ODHEI	12	G	6
MULE DEER	ODHEI	12	K	6
MULE DEER	ODHEI	12	M	6
MULE DEER	ODHEI	13	I	6
MULE DEER	ODHEI	15	P	6
MULE DEER	ODHEI	4	K	7
MULE DEER	ODHEI	7	D	7
MULE DEER	ODHEI	8	N	7
MULE DEER	ODHEI	12	E	7
MULE DEER	ODHEI	13	G	7
MULE DEER	ODHEI	14	G	7
MULE DEER	ODHEI	10	S	8
MULE DEER	ODHEI	11	H	8
MULE DEER	ODHEI	6	G	9
MULE DEER	ODHEI	7	G	9
MULE DEER	ODHEI	7	J	10
MULE DEER	ODHEI	8	D	10
MULE DEER	ODHEI	16	I	10
MULE DEER	ODHEI	10	H	11
MULE DEER	ODHEI	8	M	12

BIG GAME MAMMAL AREA USE SUMMARY FOR 1996

SPECIES NAME	SPEC CODE	GRID N	GRID E	GROUP SIZE
MULE DEER	ODHEI	11	E	12
MULE DEER	ODHEI	14	J	12
MULE DEER	ODHEI	5	H	13
MULE DEER	ODHEI	8	F	13
MULE DEER	ODHEI	13	E	13
MULE DEER	ODHEI	13	K	13
MULE DEER	ODHEI	15	G	13
MULE DEER	ODHEI	15	O	13
MULE DEER	ODHEI	6	M	14
MULE DEER	ODHEI	14	E	14
MULE DEER	ODHEI	5	F	15
MULE DEER	ODHEI	13	F	16
MULE DEER	ODHEI	12	O	17
MULE DEER	ODHEI	3	M	19
MULE DEER	ODHEI	6	L	19
MULE DEER	ODHEI	12	P	19
MULE DEER	ODHEI	4	P	23
MULE DEER	ODHEI	2	L	24
MULE DEER	ODHEI	7	I	24
MULE DEER	ODHEI	12	N	24
MULE DEER	ODHEI	14	F	48
MULE X WHITE-TAILED DEER	HEXVI	14	F	1
WHITE-TAILED DEER	ODVII	10	S	1
WHITE-TAILED DEER	ODVII	12	P	1
WHITE-TAILED DEER	ODVII	15	P	1
WHITE-TAILED DEER	ODVII	5	R	2
WHITE-TAILED DEER	ODVII	4	T	3
WHITE-TAILED DEER	ODVII	6	T	4
WINTER				
MULE DEER	ODHEI	2	N	1
MULE DEER	ODHEI	5	L	1
MULE DEER	ODHEI	7	L	1
MULE DEER	ODHEI	11	S	1
MULE DEER	ODHEI	13	G	1
MULE DEER	ODHEI	15	I	1
MULE DEER	ODHEI	15	K	1
MULE DEER	ODHEI	6	I	2
MULE DEER	ODHEI	6	R	2
MULE DEER	ODHEI	7	T	2
MULE DEER	ODHEI	11	E	2
MULE DEER	ODHEI	7	R	3
MULE DEER	ODHEI	7	P	4
MULE DEER	ODHEI	8	L	4
MULE DEER	ODHEI	9	D	4
MULE DEER	ODHEI	15	O	4
MULE DEER	ODHEI	15	R	4
MULE DEER	ODHEI	6	M	5
MULE DEER	ODHEI	10	P	5

BIG GAME MAMMAL AREA USE SUMMARY FOR 1996

SPECIES NAME	SPEC CODE	GRID N	GRID E	GROUP SIZE
MULE DEER	ODHE1	15	H	5
MULE DEER	ODHE1	6	P	6
MULE DEER	ODHE1	8	N	7
MULE DEER	ODHE1	9	E	7
MULE DEER	ODHE1	10	D	7
MULE DEER	ODHE1	14	K	7
MULE DEER	ODHE1	14	R	7
MULE DEER	ODHE1	8	P	8
MULE DEER	ODHE1	14	O	8
MULE DEER	ODHE1	15	M	8
MULE DEER	ODHE1	8	O	9
MULE DEER	ODHE1	13	M	9
MULE DEER	ODHE1	8	G	10
MULE DEER	ODHE1	8	S	10
MULE DEER	ODHE1	12	O	10
MULE DEER	ODHE1	13	N	10
MULE DEER	ODHE1	14	Q	10
MULE DEER	ODHE1	5	H	11
MULE DEER	ODHE1	10	S	11
MULE DEER	ODHE1	5	Q	12
MULE DEER	ODHE1	8	F	12
MULE DEER	ODHE1	15	P	12
MULE DEER	ODHE1	10	U	13
MULE DEER	ODHE1	16	K	13
MULE DEER	ODHE1	8	D	15
MULE DEER	ODHE1	11	P	15
MULE DEER	ODHE1	8	H	16
MULE DEER	ODHE1	12	H	16
MULE DEER	ODHE1	12	N	16
MULE DEER	ODHE1	15	F	16
MULE DEER	ODHE1	7	O	17
MULE DEER	ODHE1	9	R	17
MULE DEER	ODHE1	4	M	18
MULE DEER	ODHE1	5	J	18
MULE DEER	ODHE1	6	O	19
MULE DEER	ODHE1	16	L	19
MULE DEER	ODHE1	8	M	20
MULE DEER	ODHE1	10	O	20
MULE DEER	ODHE1	15	Q	20
MULE DEER	ODHE1	7	J	21
MULE DEER	ODHE1	7	K	21
MULE DEER	ODHE1	14	E	21
MULE DEER	ODHE1	14	G	21
MULE DEER	ODHE1	7	H	25
MULE DEER	ODHE1	16	N	32
MULE DEER	ODHE1	13	F	27
MULE DEER	ODHE1	15	J	31
MULE DEER	ODHE1	5	K	41
MULE DEER	ODHE1	7	G	48
MULE DEER	ODHE1	15	G	66

BIG GAME MAMMAL AREA USE SUMMARY FOR 1996

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SPECIES NAME	SPEC CODE	GRID N	GRID E	GROUP SIZE
MULE X WHITE-TAILED DEER	HEXVI	15	P	1
WHITE-TAILED DEER	ODVII	5	J	1
WHITE-TAILED DEER	ODVII	5	Q	3
WHITE-TAILED DEER	ODVII	7	R	1
WHITE-TAILED DEER	ODVII	8	S	1
WHITE-TAILED DEER	ODVII	15	Q	1

MID-SIZED MAMMAL AREA USE SUMMARY FOR 1996

SPECIES NAME	SPEC CODE	GRID N	GRID E	GROUP SIZE
DESERT COTTONTAIL	SYAU1	1	Q	1
DESERT COTTONTAIL	SYAU1	2	L	1
MUSKRAT	ONZII	3	R	1
MUSKRAT	ONZII	7	L	1
DESERT COTTONTAIL	SYAU1	7	N	4
DESERT COTTONTAIL	SYAU1	7	P	3
DESERT COTTONTAIL	SYAU1	8	K	5
DESERT COTTONTAIL	SYAU1	8	L	45
DESERT COTTONTAIL	SYAU1	8	M	33
DESERT COTTONTAIL	SYAU1	8	N	5
DESERT COTTONTAIL	SYAU1	8	O	1
JACKRABBIT	LEPI	9	D	1
DESERT COTTONTAIL	SYAU1	10	O	6
MUSKRAT	ONZII	10	O	6
MUSKRAT	ONZII	10	P	4
DESERT COTTONTAIL	SYAU1	10	Q	1
JACKRABBIT	LEPI	11	E	2
DESERT COTTONTAIL	SYAU1	11	H	1
DESERT COTTONTAIL	SYAU1	11	J	7
DESERT COTTONTAIL	SYAU1	12	L	1
MUSKRAT	ONZII	12	N	1
DESERT COTTONTAIL	SYAU1	12	O	3
MUSKRAT	ONZII	12	O	5
DESERT COTTONTAIL	SYAU1	12	P	1
DESERT COTTONTAIL	SYAU1	12	Q	7
EASTERN FOX SQUIRREL	SCNII	13	F	1
COMMON PORCUPINE	ERDOI	13	G	3
COMMON PORCUPINE	ERDOI	13	H	1
MUSKRAT	ONZII	13	H	2
DESERT COTTONTAIL	SYAU1	13	K	1
DESERT COTTONTAIL	SYAU1	13	Q	9
DESERT COTTONTAIL	SYAU1	14	L	1
DESERT COTTONTAIL	SYAU1	14	Q	1
DESERT COTTONTAIL	SYAU1	15	O	1
COMMON PORCUPINE	ERDOI	15	K	1
DESERT COTTONTAIL	SYAU1	15	N	1
DESERT COTTONTAIL	SYAU1	17	P	1

CARNIVORE AREA USE FOR 1996

SPECIES NAME	SPEC CODE	GRID N	GRID E	GROUP SIZE
COYOTE	CALA1	2	F	1
COYOTE	CALA1	2	H	4
COYOTE	CALA1	2	M	1
RACCOON	PRLO1	2	T	1
COYOTE	CALA1	2	T	2
COMMON GRAY FOX	URCI1	2	U	1
RACCOON	PRLO1	2	U	2
COYOTE	CALA1	2	U	4
COYOTE	CALA1	3	F	2
COYOTE	CALA1	3	L	1
COYOTE	CALA1	3	M	3
COYOTE	CALA1	3	N	5
COYOTE	CALA1	4	F	1
COYOTE	CALA1	4	L	3
COYOTE	CALA1	4	P	1
RACCOON	PRLO1	4	R	1
RACCOON	PRLO1	4	S	1
COYOTE	CALA1	4	T	2
COYOTE	CALA1	5	F	1
COYOTE	CALA1	5	H	2
COYOTE	CALA1	5	I	3
COYOTE	CALA1	5	J	3
COYOTE	CALA1	5	M	1
RACCOON	PRLO1	5	O	1
COYOTE	CALA1	5	S	1
COYOTE	CALA1	6	H	1
COYOTE	CALA1	6	I	2
COYOTE	CALA1	6	J	1
COYOTE	CALA1	6	K	2
COYOTE	CALA1	6	N	1
COYOTE	CALA1	6	O	1
COYOTE	CALA1	6	P	1
COYOTE	CALA1	7	G	4
RACCOON	PRLO1	7	H	1
COYOTE	CALA1	7	I	2
COYOTE	CALA1	7	J	1
COYOTE	CALA1	7	K	3
COYOTE	CALA1	7	L	1
COYOTE	CALA1	7	O	2
COYOTE	CALA1	7	P	3
COYOTE	CALA1	8	D	2
RACCOON	PRLO1	8	K	2
RACCOON	PRLO1	8	L	5
COYOTE	CALA1	9	M	1
COYOTE	CALA1	9	R	1
STRIPED SKUNK	MEME1	9	U	1
COYOTE	CALA1	10	D	3
COYOTE	CALA1	10	N	1
COYOTE	CALA1	10	O	2
COYOTE	CALA1	10	R	1
COYOTE	CALA1	11	E	1
RACCOON	PRLO1	11	N	3
COYOTE	CALA1	12	D	2
COYOTE	CALA1	12	E	1
BLACK BEAR	URAM1	12	F	1
COYOTE	CALA1	12	F	1
COYOTE	CALA1	12	G	2

CARNIVORE AREA USE FOR 1996

SPECIES NAME	SPEC CODE	GRID N	GRID E	GROUP SIZE
STRIPED SKUNK	MEME1	12	N	1
COYOTE	CALA1	12	O	5
COYOTE	CALA1	12	P	1
COYOTE	CALA1	12	Q	1
COYOTE	CALA1	12	R	1
COYOTE	CALA1	13	E	1
COYOTE	CALA1	13	F	2
COYOTE	CALA1	13	G	1
COYOTE	CALA1	13	H	5
COYOTE	CALA1	13	I	1
BLACK BEAR	URAM1	13	L	1
COYOTE	CALA1	13	L	2
COYOTE	CALA1	13	U	2
COYOTE	CALA1	14	F	4
COYOTE	CALA1	14	G	1
COYOTE	CALA1	14	J	1
COYOTE	CALA1	14	O	2
COYOTE	CALA1	14	Q	1
COYOTE	CALA1	15	G	4
COYOTE	CALA1	15	J	7
COYOTE	CALA1	15	K	4
COYOTE	CALA1	15	M	1
COYOTE	CALA1	15	N	1
COYOTE	CALA1	15	O	1
COYOTE	CALA1	15	P	2
COYOTE	CALA1	16	I	2
MINK	MUVII	16	J	1
COYOTE	CALA1	16	J	2
COYOTE	CALA1	16	K	1
RACCOON	PRLO1	16	K	1
COYOTE	CALA1	16	L	1
COYOTE	CALA1	16	N	2
COYOTE	CALA1	16	O	2
COYOTE	CALA1	17	L	1
COYOTE	CALA1	17	M	1
COYOTE	CALA1	17	N	1

WATERFOWL AREA USE FOR 1996

SPECIES NAME	SPEC CODE	GRID N	GRID E	GROUP SIZE
SPRING				
AMERICAN WIGEON	ANAMI	2	T	2
NORTHERN SHOVELER	ANCLI	2	T	1
NORTHERN SHOVELER	ANCLI	2	T	14
NORTHERN SHOVELER	ANCLI	2	T	2
GREEN-WINGED TEAL	ANCR1	2	T	2
GREEN-WINGED TEAL	ANCR1	2	T	4
CINNAMON TEAL	ANCY1	2	T	3
BLUE-WINGED TEAL	ANDII	2	T	2
BLUE-WINGED TEAL	ANDII	2	T	2
BLUE-WINGED TEAL	ANDII	2	T	2
MALLARD	ANPL1	2	T	6
MALLARD	ANPL1	2	T	2
MALLARD	ANPL1	2	T	4
MALLARD	ANPL1	2	T	6
MALLARD	ANPL1	2	T	3
GADWALL	ANST1	2	T	6
GADWALL	ANST1	2	T	6
GADWALL	ANST1	2	T	10
GADWALL	ANST1	2	T	6
GREAT BLUE HERON	ARHE1	2	T	1
LESSER SCAUP	AYAF1	2	T	14
LESSER SCAUP	AYAF1	2	T	6
REDHEAD	AYAM1	2	T	64
REDHEAD	AYAM1	2	T	2
REDHEAD	AYAM1	2	T	4
CANADA GOOSE	BRCA1	2	T	2
CANADA GOOSE	BRCA1	2	T	4
BUFFLEHEAD	BUAL1	2	T	8
BUFFLEHEAD	BUAL1	2	T	2
BUFFLEHEAD	BUAL1	2	T	2
AMERICAN COOT	FUAM1	2	T	4
AMERICAN COOT	FUAM1	2	T	17
AMERICAN COOT	FUAM1	2	T	17
AMERICAN COOT	FUAM1	2	T	20
AMERICAN COOT	FUAM1	2	T	15
RUDDY DUCK	OXJA1	2	T	2
PIED-BILLED GREBE	POPO1	2	T	1
PIED-BILLED GREBE	POPO1	2	T	2
PIED-BILLED GREBE	POPO1	2	T	8
PIED-BILLED GREBE	POPO1	2	T	6
GREAT BLUE HERON	ARHE1	2	U	1
REDHEAD	AYAM1	2	U	10
RING-NECKED DUCK	AYCO1	2	U	1
PIED-BILLED GREBE	POPO1	2	U	2
GREEN-WINGED TEAL	ANCR1	3	R	2
CINNAMON TEAL	ANCY1	3	R	8
REDHEAD	AYAM1	3	R	1
AMERICAN COOT	FUAM1	3	R	2
PIED-BILLED GREBE	POPO1	3	R	1
BLACK-CROWNED NIGHT HERON	NYNY1	3	S	4
BLACK-CROWNED NIGHT HERON	NYNY1	3	S	3
MALLARD	ANPL1	4	N	2
MALLARD	ANPL1	4	P	2
CANADA GOOSE	BRCA1	4	R	2
AMERICAN COOT	FUAM1	4	R	1

WATERFOWL AREA USE FOR 1996

SPECIES NAME	SPEC CODE	GRID N	GRID E	GROUP SIZE
PIED-BILLED GREBE	POPOI	4	R	2
MALLARD	ANPLI	4	T	2
MALLARD	ANPLI	5	O	1
MALLARD	ANPLI	5	P	2
CANADA GOOSE	BRCAI	5	S	1
MALLARD	ANPLI	6	K	2
MALLARD	ANPLI	7	J	1
MALLARD	ANPLI	7	J	2
MALLARD	ANPLI	7	K	2
GREEN-WINGED TEAL	ANCR1	7	L	2
MALLARD	ANPLI	7	L	2
MALLARD	ANPLI	7	L	1
MALLARD	ANPLI	7	M	4
GREAT BLUE HERON	ARHEI	7	M	1
GREEN-WINGED TEAL	ANCR1	7	N	2
CINNAMON TEAL	ANCYI	7	N	2
MALLARD	ANPLI	7	N	2
MALLARD	ANPLI	7	N	4
MALLARD	ANPLI	7	N	1
CANADA GOOSE	BRCAI	7	N	2
BLACK-CROWNED NIGHT HERON	NYNYI	7	N	1
PIED-BILLED GREBE	POPOI	7	N	1
PIED-BILLED GREBE	POPOI	7	N	1
GREEN-WINGED TEAL	ANCR1	7	P	5
MALLARD	ANPLI	7	P	2
MALLARD	ANPLI	7	P	3
PIED-BILLED GREBE	POPOI	7	P	1
PIED-BILLED GREBE	POPOI	7	P	2
PIED-BILLED GREBE	POPOI	7	P	2
MALLARD	ANPLI	8	P	2
GREEN-WINGED TEAL	ANCR1	10	O	2
GREEN-WINGED TEAL	ANCR1	10	O	6
GREEN-WINGED TEAL	ANCR1	10	O	9
GREEN-WINGED TEAL	ANCR1	10	O	2
BLUE-WINGED TEAL	ANDII	10	O	3
BLUE-WINGED TEAL	ANDII	10	O	2
BLUE-WINGED TEAL	ANDII	10	O	3
BLUE-WINGED TEAL	ANDII	10	O	2
MALLARD	ANPLI	10	O	2
MALLARD	ANPLI	10	O	1
MALLARD	ANPLI	10	O	3
MALLARD	ANPLI	10	O	3
MALLARD	ANPLI	10	O	2
MALLARD	ANPLI	10	O	1
MALLARD	ANPLI	10	O	1
GREAT BLUE HERON	ARHEI	10	O	1
LESSER SCAUP	AYAFI	10	O	4
REDHEAD	AYAMI	10	O	2
CANADA GOOSE	BRCAI	10	O	2
CANADA GOOSE	BRCAI	10	O	4
PIED-BILLED GREBE	POPOI	10	O	1
GREEN-WINGED TEAL	ANCR1	10	P	6
BLUE-WINGED TEAL	ANDII	10	P	3
BLUE-WINGED TEAL	ANDII	10	P	1
MALLARD	ANPLI	10	P	1
MALLARD	ANPLI	10	P	2

WATERFOWL AREA USE FOR 1996

SPECIES NAME	SPEC CODE	GRID N	GRID E	GROUP SIZE
MALLARD	ANPLI	10	P	2
MALLARD	ANPLI	11	E	2
MALLARD	ANPLI	11	F	2
RING-NECKED DUCK	AYCOI	11	F	2
GREEN-WINGED TEAL	ANCR1	11	Q	4
GREEN-WINGED TEAL	ANCR1	11	Q	5
BLUE-WINGED TEAL	ANDII	11	Q	1
MALLARD	ANPLI	11	Q	2
MALLARD	ANPLI	11	Q	2
MALLARD	ANPLI	11	Q	8
GREAT BLUE HERON	ARHEI	11	Q	1
MALLARD	ANPLI	12	F	2
BLUE-WINGED TEAL	ANDII	12	M	2
MALLARD	ANPLI	12	M	2
MALLARD	ANPLI	12	M	1
REDHEAD	AYAMI	12	M	2
CANADA GOOSE	BRCAI	12	M	1
GREEN-WINGED TEAL	ANCR1	12	N	2
GREEN-WINGED TEAL	ANCR1	12	N	2
BLUE-WINGED TEAL	ANDII	12	N	4
BLUE-WINGED TEAL	ANDII	12	N	2
BLUE-WINGED TEAL	ANDII	12	N	1
MALLARD	ANPLI	12	N	2
MALLARD	ANPLI	12	N	2
MALLARD	ANPLI	12	N	4
MALLARD	ANPLI	12	N	4
GADWALL	ANSTI	12	N	4
GADWALL	ANSTI	12	N	5
LESSER SCAUP	AYAFI	12	N	5
REDHEAD	AYAMI	12	N	2
GREEN-WINGED TEAL	ANCR1	12	O	2
BLUE-WINGED TEAL	ANDII	12	O	8
MALLARD	ANPLI	12	O	6
MALLARD	ANPLI	12	O	18
MALLARD	ANPLI	12	O	4
MALLARD	ANPLI	12	O	8
MALLARD	ANPLI	12	O	2
MALLARD	ANPLI	12	O	2
MALLARD	ANPLI	12	O	17
LESSER SCAUP	AYAFI	12	O	14
LESSER SCAUP	AYAFI	12	O	21
REDHEAD	AYAMI	12	O	6
REDHEAD	AYAMI	12	O	17
REDHEAD	AYAMI	12	O	2
REDHEAD	AYAMI	12	O	2
CANADA GOOSE	BRCAI	12	O	2
BUFFLEHEAD	BUALI	12	O	1
AMERICAN COOT	FUAMI	12	O	1
BLACK-CROWNED NIGHT HERON	NYNYI	12	O	1
PIED-BILLED GREBE	POPOI	12	O	2
PIED-BILLED GREBE	POPOI	12	O	1
GREEN-WINGED TEAL	ANCR1	12	P	4
GREEN-WINGED TEAL	ANCR1	12	P	2
BLUE-WINGED TEAL	ANDII	12	P	2
BLUE-WINGED TEAL	ANDII	12	P	2
MALLARD	ANPLI	12	P	2

WATERFOWL AREA USE FOR 1996

SPECIES NAME	SPEC CODE	GRID N	GRID E	GROUP SIZE
GADWALL	ANSTI	12	P	5
GADWALL	ANSTI	12	P	2
LESSER SCAUP	AYAFI	12	P	2
LESSER SCAUP	AYAFI	12	P	5
CANADA GOOSE	BRCAI	12	P	2
CANADA GOOSE	BRCAI	12	P	2
CANADA GOOSE	BRCAI	12	P	2
CANADA GOOSE	BRCAI	12	P	2
BUFFLEHEAD	BUALI	12	P	2
DOUBLE-CRESTED CORMORANT	PHAU1	12	P	1
DOUBLE-CRESTED CORMORANT	PHAU1	12	P	1
PIED-BILLED GREBE	POPOI	12	P	1
PIED-BILLED GREBE	POPOI	12	P	1
MALLARD	ANPLI	12	Q	7
MALLARD	ANPLI	12	Q	4
LESSER SCAUP	AYAFI	12	Q	2
LESSER SCAUP	AYAFI	12	Q	1
REDHEAD	AYAMI	12	Q	4
BUFFLEHEAD	BUALI	12	Q	2
BUFFLEHEAD	BUALI	12	Q	1
PIED-BILLED GREBE	POPOI	12	Q	1
PIED-BILLED GREBE	POPOI	12	Q	1
MALLARD	ANPLI	13	G	3
RING-NECKED DUCK	AYCOI	13	G	5
BLUE-WINGED TEAL	ANDII	13	H	1
MALLARD	ANPLI	13	H	3
MALLARD	ANPLI	13	H	2
MALLARD	ANPLI	13	H	2
MALLARD	ANPLI	13	H	2
MALLARD	ANPLI	13	H	2
RING-NECKED DUCK	AYCOI	13	H	10
RING-NECKED DUCK	AYCOI	13	H	10
RING-NECKED DUCK	AYCOI	13	H	4
MALLARD	ANPLI	13	R	4
CANADA GOOSE	BRCAI	13	R	2
PIED-BILLED GREBE	POPOI	13	S	1
MALLARD	ANPLI	13	T	3
REDHEAD	AYAMI	13	U	3
MALLARD	ANPLI	14	I	2
MALLARD	ANPLI	16	J	2
DOUBLE-CRESTED CORMORANT	PHAU1			12
SUMMER				
NORTHERN SHOVELER	ANCLI	2	T	4
GREEN-WINGED TEAL	ANCR1	2	T	1
CINNAMON TEAL	ANCY1	2	T	1
CINNAMON TEAL	ANCY1	2	T	2
CINNAMON TEAL	ANCY1	2	T	5
BLUE-WINGED TEAL	ANDII	2	T	1
BLUE-WINGED TEAL	ANDII	2	T	8
BLUE-WINGED TEAL	ANDII	2	T	2
BLUE-WINGED TEAL	ANDII	2	T	3
MALLARD	ANPLI	2	T	1
MALLARD	ANPLI	2	T	4
MALLARD	ANPLI	2	T	6
MALLARD	ANPLI	2	T	1
MALLARD	ANPLI	2	T	5

WATERFOWL AREA USE FOR 1996

SPECIES NAME	SPEC CODE	GRID N	GRID E	GROUP SIZE
MALLARD	ANPLI	2	T	6
MALLARD	ANPLI	2	T	4
MALLARD	ANPLI	2	T	16
GADWALL	ANSTI	2	T	2
GADWALL	ANSTI	2	T	3
GADWALL	ANSTI	2	T	2
GREAT BLUE HERON	ARHEI	2	T	1
GREAT BLUE HERON	ARHEI	2	T	1
REDHEAD	AYAMI	2	T	4
REDHEAD	AYAMI	2	T	2
REDHEAD	AYAMI	2	T	10
RING-NECKED DUCK	AYCOI	2	T	1
RING-NECKED DUCK	AYCOI	2	T	1
AMERICAN COOT	FUAMI	2	T	7
AMERICAN COOT	FUAMI	2	T	10
AMERICAN COOT	FUAMI	2	T	10
AMERICAN COOT	FUAMI	2	T	22
AMERICAN COOT	FUAMI	2	T	12
AMERICAN COOT	FUAMI	2	T	23
AMERICAN COOT	FUAMI	2	T	25
AMERICAN COOT	FUAMI	2	T	31
AMERICAN COOT	FUAMI	2	T	36
RUDDY DUCK	OXJAI	2	T	2
RUDDY DUCK	OXJAI	2	T	2
RUDDY DUCK	OXJAI	2	T	4
RUDDY DUCK	OXJAI	2	T	3
RUDDY DUCK	OXJAI	2	T	2
RUDDY DUCK	OXJAI	2	T	7
DOUBLE-CRESTED CORMORANT	PHAU1	2	T	1
DOUBLE-CRESTED CORMORANT	PHAU1	2	T	2
DOUBLE-CRESTED CORMORANT	PHAU1	2	T	1
WHITE-FACED IBIS	PLCHI	2	T	2
PIED-BILLED GREBE	POPOI	2	T	5
PIED-BILLED GREBE	POPOI	2	T	2
PIED-BILLED GREBE	POPOI	2	T	2
PIED-BILLED GREBE	POPOI	2	T	20
PIED-BILLED GREBE	POPOI	2	T	7
PIED-BILLED GREBE	POPOI	2	T	11
PIED-BILLED GREBE	POPOI	2	T	10
PIED-BILLED GREBE	POPOI	2	T	11
AMERICAN WIGEON	ANAMI	2	U	3
AMERICAN COOT	FUAMI	2	U	10
PIED-BILLED GREBE	POPOI	2	U	3
MALLARD	ANPLI	3	R	9
MALLARD	ANPLI	3	R	2
PIED-BILLED GREBE	POPOI	3	R	7
PIED-BILLED GREBE	POPOI	3	R	5
PIED-BILLED GREBE	POPOI	3	R	3
BLACK-CROWNED NIGHT HERON	NYNYI	3	S	1
BLACK-CROWNED NIGHT HERON	NYNYI	3	S	1
CINNAMON TEAL	ANCYI	4	R	1
AMERICAN COOT	FUAMI	4	R	19
AMERICAN COOT	FUAMI	4	R	5
AMERICAN COOT	FUAMI	4	R	5
AMERICAN COOT	FUAMI	4	R	10
AMERICAN COOT	FUAMI	4	R	6

WATERFOWL AREA USE FOR 1996

SPECIES NAME	SPEC CODE	GRID N	GRID E	GROUP SIZE
AMERICAN COOT	FUAM1	4	R	9
PIED-BILLED GREBE	POPO1	4	R	2
PIED-BILLED GREBE	POPO1	4	R	9
PIED-BILLED GREBE	POPO1	4	R	13
DOUBLE-CRESTED CORMORANT	PHAU1	4	T	1
DOUBLE-CRESTED CORMORANT	PHAU1	4	T	1
CINNAMON TEAL	ANCY1	5	R	2
MALLARD	ANPL1	6	L	2
MALLARD	ANPL1	7	J	1
MALLARD	ANPL1	7	L	1
MALLARD	ANPL1	7	L	2
MALLARD	ANPL1	7	L	2
GREAT BLUE HERON	ARHE1	7	M	1
MALLARD	ANPL1	7	N	1
MALLARD	ANPL1	7	N	1
MALLARD	ANPL1	7	N	1
MALLARD	ANPL1	7	N	1
GREAT BLUE HERON	ARHE1	7	N	1
GREAT BLUE HERON	ARHE1	7	N	1
BLACK-CROWNED NIGHT HERON	NYNY1	7	N	1
BLACK-CROWNED NIGHT HERON	NYNY1	7	N	2
PIED-BILLED GREBE	POPO1	7	N	2
PIED-BILLED GREBE	POPO1	7	N	8
PIED-BILLED GREBE	POPO1	7	N	9
PIED-BILLED GREBE	POPO1	7	N	1
PIED-BILLED GREBE	POPO1	7	N	7
PIED-BILLED GREBE	POPO1	7	N	8
PIED-BILLED GREBE	POPO1	7	N	1
MALLARD	ANPL1	7	P	1
MALLARD	ANPL1	7	P	1
DOUBLE-CRESTED CORMORANT	PHAU1	7	P	1
PIED-BILLED GREBE	POPO1	7	P	1
PIED-BILLED GREBE	POPO1	7	P	1
PIED-BILLED GREBE	POPO1	7	P	11
PIED-BILLED GREBE	POPO1	7	P	1
GREEN-WINGED TEAL	ANCR1	10	O	7
GREEN-WINGED TEAL	ANCR1	10	O	10
BLUE-WINGED TEAL	AND11	10	O	7
BLUE-WINGED TEAL	AND11	10	O	9
BLUE-WINGED TEAL	AND11	10	O	6
BLUE-WINGED TEAL	AND11	10	O	1
BLUE-WINGED TEAL	AND11	10	O	1
BLUE-WINGED TEAL	AND11	10	O	12
MALLARD	ANPL1	10	O	1
MALLARD	ANPL1	10	O	3
MALLARD	ANPL1	10	O	4
MALLARD	ANPL1	10	O	7
MALLARD	ANPL1	10	O	6
MALLARD	ANPL1	10	O	2
MALLARD	ANPL1	10	O	14
GREAT BLUE HERON	ARHE1	10	O	1
MALLARD	ANPL1	10	P	6
MALLARD	ANPL1	10	P	3
MALLARD	ANPL1	11	D	1
GREAT BLUE HERON	ARHE1	11	D	1
MALLARD	ANPL1	11	Q	3

WATERFOWL AREA USE FOR 1996

SPECIES NAME	SPEC CODE	GRID N	GRID E	GROUP SIZE
GREAT BLUE HERON	ARHEI	11	Q	1
DOUBLE-CRESTED CORMORANT	PHAU1	11	Q	2
DOUBLE-CRESTED CORMORANT	PHAU1	11	S	1
MALLARD	ANPL1	12	N	4
MALLARD	ANPL1	12	N	7
MALLARD	ANPL1	12	N	7
MALLARD	ANPL1	12	N	9
AMERICAN COOT	FUAM1	12	N	1
PIED-BILLED GREBE	POPO1	12	N	1
WOOD DUCK	AISPI	12	O	1
BLUE-WINGED TEAL	ANDI1	12	O	3
MALLARD	ANPL1	12	O	5
MALLARD	ANPL1	12	O	2
MALLARD	ANPL1	12	O	7
MALLARD	ANPL1	12	O	1
MALLARD	ANPL1	12	O	15
MALLARD	ANPL1	12	O	3
MALLARD	ANPL1	12	O	5
MALLARD	ANPL1	12	O	14
GREAT BLUE HERON	ARHEI	12	O	1
GREAT BLUE HERON	ARHEI	12	O	1
REDHEAD	AYAM1	12	O	2
REDHEAD	AYAM1	12	O	1
REDHEAD	AYAM1	12	O	1
AMERICAN COOT	FUAM1	12	O	1
AMERICAN COOT	FUAM1	12	O	1
AMERICAN COOT	FUAM1	12	O	1
AMERICAN COOT	FUAM1	12	O	2
AMERICAN COOT	FUAM1	12	O	1
AMERICAN COOT	FUAM1	12	O	4
DOUBLE-CRESTED CORMORANT	PHAU1	12	O	1
DOUBLE-CRESTED CORMORANT	PHAU1	12	O	1
DOUBLE-CRESTED CORMORANT	PHAU1	12	O	2
PIED-BILLED GREBE	POPO1	12	O	1
PIED-BILLED GREBE	POPO1	12	O	1
PIED-BILLED GREBE	POPO1	12	O	6
PIED-BILLED GREBE	POPO1	12	O	3
PIED-BILLED GREBE	POPO1	12	O	6
PIED-BILLED GREBE	POPO1	12	O	9
PIED-BILLED GREBE	POPO1	12	O	7
MALLARD	ANPL1	12	P	2
MALLARD	ANPL1	12	P	3
MALLARD	ANPL1	12	P	9
MALLARD	ANPL1	12	P	3
GREAT BLUE HERON	ARHEI	12	P	1
GREAT BLUE HERON	ARHEI	12	P	1
DOUBLE-CRESTED CORMORANT	PHAU1	12	P	3
DOUBLE-CRESTED CORMORANT	PHAU1	12	P	1
DOUBLE-CRESTED CORMORANT	PHAU1	12	P	1
PIED-BILLED GREBE	POPO1	12	P	1
GREAT BLUE HERON	ARHEI	12	Q	1
GREAT BLUE HERON	ARHEI	12	Q	1
DOUBLE-CRESTED CORMORANT	PHAU1	12	Q	2
DOUBLE-CRESTED CORMORANT	PHAU1	12	Q	2
MALLARD	ANPL1	13	H	1
MALLARD	ANPL1	13	H	1

WATERFOWL AREA USE FOR 1996

SPECIES NAME	SPEC CODE	GRID N	GRID E	GROUP SIZE
GREAT BLUE HERON	ARHEI	13	H	1
GREAT BLUE HERON	ARHEI	13	H	1
BLUE-WINGED TEAL	ANDII	13	L	2
PIED-BILLED GREBE	POPOI	13	L	6
PIED-BILLED GREBE	POPOI	13	L	3
WOOD DUCK	AISPI	13	Q	1
MALLARD	ANPLI	13	Q	6
MALLARD	ANPLI	13	R	1
MALLARD	ANPLI	13	R	2
GREAT BLUE HERON	ARHEI	13	U	1
AMERICAN WHITE PELICAN	PEERI	13	U	14
DOUBLE-CRESTED CORMORANT	PHAU1	14	F	1
GREAT BLUE HERON	ARHEI	14	G	1
MALLARD	ANPLI	14	T	1
MALLARD	ANPLI	16	J	1
MALLARD	ANPLI	17	K	1
MALLARD	ANPLI	17	L	2
FALL				
CANADA GOOSE	BRCAI	1	T	67
CANADA GOOSE	BRCAI	1	T	61
CANADA GOOSE	BRCAI	1	T	83
GREEN-WINGED TEAL	ANCR1	2	T	4
BLUE-WINGED TEAL	ANDII	2	T	3
BLUE-WINGED TEAL	ANDII	2	T	1
MALLARD	ANPLI	2	T	10
MALLARD	ANPLI	2	T	4
MALLARD	ANPLI	2	T	3
MALLARD	ANPLI	2	T	4
MALLARD	ANPLI	2	T	3
GADWALL	ANSTI	2	T	8
LESSER SCAUP	AYAFI	2	T	5
REDHEAD	AYAMI	2	T	5
RING-NECKED DUCK	AYCOI	2	T	2
RING-NECKED DUCK	AYCOI	2	T	5
BUFFLEHEAD	BUALI	2	T	7
BUFFLEHEAD	BUALI	2	T	3
BUFFLEHEAD	BUALI	2	T	2
BUFFLEHEAD	BUALI	2	T	2
BUFFLEHEAD	BUALI	2	T	2
AMERICAN COOT	FUAMI	2	T	13
AMERICAN COOT	FUAMI	2	T	4
RUDDY DUCK	OXJAI	2	T	6
RUDDY DUCK	OXJAI	2	T	4
RUDDY DUCK	OXJAI	2	T	1
PIED-BILLED GREBE	POPOI	2	T	4
PIED-BILLED GREBE	POPOI	2	T	4
PIED-BILLED GREBE	POPOI	2	T	5
AMERICAN COOT	FUAMI	2	U	7
LESSER SCAUP	AYAFI	3	R	1
RING-NECKED DUCK	AYCOI	3	R	1
BUFFLEHEAD	BUALI	3	R	2
BUFFLEHEAD	BUALI	3	R	1
PIED-BILLED GREBE	POPOI	3	R	5
PIED-BILLED GREBE	POPOI	3	R	1
CANADA GOOSE	BRCAI	4	O	40
LESSER SCAUP	AYAFI	4	R	1

WATERFOWL AREA USE FOR 1996

SPECIES NAME	SPEC CODE	GRID N	GRID E	GROUP SIZE
BUFFLEHEAD	BUALI	4	R	1
BUFFLEHEAD	BUALI	4	R	3
COMMON GOLDENEYE	BUCLI	4	R	1
COMMON GOLDENEYE	BUCLI	4	R	2
AMERICAN COOT	FUAMI	4	R	4
PIED-BILLED GREBE	POPOI	4	R	2
GREAT BLUE HERON	ARHEI	7	N	1
COMMON MERGANSER	MEMEI	7	N	1
EARED GREBE	PONII	7	N	1
PIED-BILLED GREBE	POPOI	7	N	2
PIED-BILLED GREBE	POPOI	7	N	1
PIED-BILLED GREBE	POPOI	7	N	1
AMERICAN COOT	FUAMI	7	P	2
PIED-BILLED GREBE	POPOI	7	P	1
PIED-BILLED GREBE	POPOI	7	P	2
GREEN-WINGED TEAL	ANCR1	10	N	4
BLUE-WINGED TEAL	ANDI1	10	N	2
MALLARD	ANPL1	10	N	2
NORTHERN PINTAIL	ANAC1	10	O	8
GREEN-WINGED TEAL	ANCR1	10	O	1
MALLARD	ANPL1	10	O	4
MALLARD	ANPL1	10	O	6
MALLARD	ANPL1	10	O	2
MALLARD	ANPL1	10	O	5
MALLARD	ANPL1	10	O	4
GREAT BLUE HERON	ARHEI	10	O	1
GREEN-WINGED TEAL	ANCR1	10	P	1
MALLARD	ANPL1	10	P	1
MALLARD	ANPL1	10	P	14
MALLARD	ANPL1	10	P	2
MALLARD	ANPL1	10	P	2
GREEN-WINGED TEAL	ANCR1	11	Q	5
MALLARD	ANPL1	11	Q	2
MALLARD	ANPL1	12	O	1
BUFFLEHEAD	BUALI	12	O	1
AMERICAN COOT	FUAMI	12	O	1
AMERICAN COOT	FUAMI	12	O	3
AMERICAN COOT	FUAMI	12	O	1
PIED-BILLED GREBE	POPOI	12	O	1
WOOD DUCK	AISP1	12	P	1
BLUE-WINGED TEAL	ANDI1	12	P	1
MALLARD	ANPL1	12	P	8
MALLARD	ANPL1	12	P	53
MALLARD	ANPL1	12	P	25
BUFFLEHEAD	BUALI	12	P	1
BUFFLEHEAD	BUALI	12	P	1
AMERICAN COOT	FUAMI	12	P	1
PIED-BILLED GREBE	POPOI	12	P	4
GREEN-WINGED TEAL	ANCR1	12	Q	1
BLUE-WINGED TEAL	ANDI1	12	Q	2
MALLARD	ANPL1	12	Q	4
MALLARD	ANPL1	12	Q	2
MALLARD	ANPL1	12	Q	8
MALLARD	ANPL1	12	Q	1
MALLARD	ANPL1	12	Q	5
BUFFLEHEAD	BUALI	12	Q	6

WATERFOWL AREA USE FOR 1996

	SPECIES NAME	SPEC CODE	GRID N	GRID E	GROUP SIZE
	BUFFLEHEAD	BUALI	12	Q	7
	BUFFLEHEAD	BUALI	12	Q	5
	MALLARD	ANPLI	12	S	7
	MALLARD	ANPLI	13	H	1
	GADWALL	ANSTI	13	H	5
	AMERICAN COOT	FUAMI	13	H	1
	AMERICAN COOT	FUAMI	13	H	1
	MALLARD	ANPLI	13	U	1
	CANADA GOOSE	BRCAI	14	H	12
WINTER	GREEN-WINGED TEAL	ANCR1	2	T	1
	MALLARD	ANPLI	2	T	5
	REDHEAD	AYAMI	2	T	63
	COMMON GOLDENEYE	BUCLI	2	T	6
	COMMON GOLDENEYE	BUCLI	2	T	2
	PIED-BILLED GREBE	POPOI	3	R	2
	CANADA GOOSE	BRCAI	3	T	7
	CANADA GOOSE	BRCAI	4	U	28
	MALLARD	ANPLI	7	N	9
	AMERICAN WIGEON	ANAMI	10	O	2
	GREEN-WINGED TEAL	ANCR1	10	O	2
	GREEN-WINGED TEAL	ANCR1	10	O	5
	MALLARD	ANPLI	10	O	2
	MALLARD	ANPLI	10	O	10
	COMMON GOLDENEYE	BUCLI	10	O	1
	GREEN-WINGED TEAL	ANCR1	10	P	2
	GREEN-WINGED TEAL	ANCR1	10	P	6
	MALLARD	ANPLI	10	P	16
	MALLARD	ANPLI	12	F	1
	GREEN-WINGED TEAL	ANCR1	12	O	7
	GREEN-WINGED TEAL	ANCR1	12	O	4
	MALLARD	ANPLI	12	O	2
	MALLARD	ANPLI	12	O	17
	CANADA GOOSE	BRCAI	12	O	7
	CINNAMON TEAL	ANCY1	12	P	1

RAPTOR AREA USE SUMMARY FOR 1996

SPECIES NAME	SPEC CODE	GRID N	GRID E	GROUP SIZE
SPRING/SUMMER				
AMERICAN KESTREL	FASPI	2	F	1
SHORT-EARED OWL	ASFLI	2	F	1
AMERICAN KESTREL	FASPI	2	G	1
AMERICAN KESTREL	FASPI	2	H	1
AMERICAN KESTREL	FASPI	2	J	1
AMERICAN KESTREL	FASPI	2	K	2
SWAINSON'S HAWK	BUSWI	2	O	1
AMERICAN KESTREL	FASPI	3	F	1
RED-TAILED HAWK	BUJAI	3	I	1
RED-TAILED HAWK	BUJAI	3	L	1
AMERICAN KESTREL	FASPI	3	N	1
AMERICAN KESTREL	FASPI	3	P	1
GREAT HORNED OWL	BUVII	3	S	4
NORTHERN GOSHAWK	ACGEI	4	K	1
GREAT HORNED OWL	BUVII	4	L	1
GREAT HORNED OWL	BUVII	4	N	7
RED-TAILED HAWK	BUJAI	4	N	2
RED-TAILED HAWK	BUJAI	4	O	1
AMERICAN KESTREL	FASPI	4	P	1
RED-TAILED HAWK	BUJAI	4	S	1
RED-TAILED HAWK	BUJAI	5	F	2
GREAT HORNED OWL	BUVII	5	O	7
RED-TAILED HAWK	BUJAI	5	O	1
SWAINSON'S HAWK	BUSWI	5	O	1
GREAT HORNED OWL	BUVII	5	P	4
GREAT HORNED OWL	BUVII	5	Q	1
GREAT HORNED OWL	BUVII	5	R	1
RED-TAILED HAWK	BUJAI	5	S	2
AMERICAN KESTREL	FASPI	6	F	2
RED-TAILED HAWK	BUJAI	6	I	2
RED-TAILED HAWK	BUJAI	6	K	1
AMERICAN KESTREL	FASPI	7	F	3
RED-TAILED HAWK	BUJAI	7	F	1
RED-TAILED HAWK	BUJAI	7	G	1
RED-TAILED HAWK	BUJAI	7	H	3
RED-TAILED HAWK	BUJAI	7	I	2
AMERICAN KESTREL	FASPI	7	J	2
BALD EAGLE	HALEI	7	J	1
RED-TAILED HAWK	BUJAI	7	J	17
FERRUGINOUS HAWK	BUREI	7	K	1
LONG-EARED OWL	ASOTI	7	L	1
GREAT HORNED OWL	BUVII	7	M	2
RED-TAILED HAWK	BUJAI	7	M	1
RED-TAILED HAWK	BUJAI	7	N	3
AMERICAN KESTREL	FASPI	7	O	1
FERRUGINOUS HAWK	BUREI	7	O	1
GREAT HORNED OWL	BUVII	7	O	2
FERRUGINOUS HAWK	BUREI	7	P	1
GREAT HORNED OWL	BUVII	7	P	1
RED-TAILED HAWK	BUJAI	7	P	1
RED-TAILED HAWK	BUJAI	8	F	1
TURKEY VULTURE	CAAU1	8	M	1
GOLDEN EAGLE	AQCHI	9	T	1
RED-TAILED HAWK	BUJAI	10	F	2
AMERICAN KESTREL	FASPI	10	O	1
GREAT HORNED OWL	BUVII	11	E	4

RAPTOR AREA USE SUMMARY FOR 1996

SPECIES NAME	SPEC CODE	GRID N	GRID E	GROUP SIZE
RED-TAILED HAWK	BUJA1	11	E	1
TURKEY VULTURE	CAAU1	11	J	1
SWAINSON'S HAWK	BUSW1	11	K	1
AMERICAN KESTREL	FASPI	11	L	1
COOPER'S HAWK	ACCO1	11	M	1
GREAT HORNED OWL	BUV11	11	M	2
SWAINSON'S HAWK	BUSW1	11	M	9
SWAINSON'S HAWK	BUSW1	11	N	3
GREAT HORNED OWL	BUV11	11	P	1
SWAINSON'S HAWK	BUSW1	12	F	1
SWAINSON'S HAWK	BUSW1	12	M	4
SWAINSON'S HAWK	BUSW1	12	N	2
AMERICAN KESTREL	FASPI	12	O	1
SWAINSON'S HAWK	BUSW1	12	O	1
PEREGRINE FALCON	FAPE1	12	S	1
RED-TAILED HAWK	BUJA1	13	E	2
GREAT HORNED OWL	BUV11	13	F	3
TURKEY VULTURE	CAAU1	13	F	1
AMERICAN KESTREL	FASPI	13	G	3
GREAT HORNED OWL	BUV11	13	G	4
RED-TAILED HAWK	BUJA1	13	G	1
AMERICAN KESTREL	FASPI	13	H	1
GREAT HORNED OWL	BUV11	13	H	1
NORTHERN HARRIER	CICY1	13	K	1
AMERICAN KESTREL	FASPI	13	Q	1
RED-TAILED HAWK	BUJA1	13	Q	2
GREAT HORNED OWL	BUV11	13	R	17
GREAT HORNED OWL	BUV11	13	S	10
GREAT HORNED OWL	BUV11	13	T	1
RED-TAILED HAWK	BUJA1	13	T	5
GREAT HORNED OWL	BUV11	14	F	2
NORTHERN HARRIER	CICY1	14	G	1
AMERICAN KESTREL	FASPI	14	Q	1
RED-TAILED HAWK	BUJA1	14	Q	1
RED-TAILED HAWK	BUJA1	14	T	1
RED-TAILED HAWK	BUJA1	15	H	1
SHORT-EARED OWL	ASFL1	15	K	1
RED-TAILED HAWK	BUJA1	16	J	3
GREAT HORNED OWL	BUV11	16	K	1
RED-TAILED HAWK	BUJA1	16	K	2
SHORT-EARED OWL	ASFL1	16	K	1
RED-TAILED HAWK	BUJA1	16	O	1
GREAT HORNED OWL	BUV11	17	K	3
GREAT HORNED OWL	BUV11	17	L	1
RED-TAILED HAWK	BUJA1	17	M	1
FALL/WINTER				
AMERICAN KESTREL	FASPI	2	H	1
RED-TAILED HAWK	BUJA1	2	K	2
RED-TAILED HAWK	BUJA1	2	L	1
RED-TAILED HAWK	BUJA1	2	S	1
RED-TAILED HAWK	BUJA1	2	U	1
NORTHERN HARRIER	CICY1	3	G	1
GOLDEN EAGLE	AQCH1	3	N	1
GREAT HORNED OWL	BUV11	3	S	2
SWAINSON'S HAWK	BUSW1	4	H	2
SHORT-EARED OWL	ASFL1	4	J	1
AMERICAN KESTREL	FASPI	4	N	1

RAPTOR AREA USE SUMMARY FOR 1996

SPECIES NAME	SPEC CODE	GRID N	GRID E	GROUP SIZE
GOLDEN EAGLE	AQCH1	4	P	1
GREAT HORNED OWL	BUV11	4	Q	1
GREAT HORNED OWL	BUV11	4	S	2
RED-TAILED HAWK	BUJA1	5	F	1
GOLDEN EAGLE	AQCH1	5	G	1
AMERICAN KESTREL	FASPI	5	I	1
NORTHERN HARRIER	CICY1	5	I	1
RED-TAILED HAWK	BUJA1	5	N	1
GOLDEN EAGLE	AQCH1	5	O	1
RED-TAILED HAWK	BUJA1	5	O	1
AMERICAN KESTREL	FASPI	5	P	1
GREAT HORNED OWL	BUV11	5	P	2
RED-TAILED HAWK	BUJA1	5	P	1
ROUGH-LEGGED HAWK	BULA1	5	P	1
GREAT HORNED OWL	BUV11	5	R	1
RED-TAILED HAWK	BUJA1	5	S	1
SHARP-SHINNED HAWK	ACST1	6	F	1
AMERICAN KESTREL	FASPI	6	G	2
NORTHERN HARRIER	CICY1	6	I	1
ROUGH-LEGGED HAWK	BULA1	6	I	1
NORTHERN HARRIER	CICY1	6	J	3
GOLDEN EAGLE	AQCH1	6	L	1
AMERICAN KESTREL	FASPI	7	G	1
GREAT HORNED OWL	BUV11	7	H	2
RED-TAILED HAWK	BUJA1	7	H	1
AMERICAN KESTREL	FASPI	7	I	1
NORTHERN HARRIER	CICY1	7	I	1
RED-TAILED HAWK	BUJA1	7	I	1
RED-TAILED HAWK	BUJA1	7	J	1
AMERICAN KESTREL	FASPI	7	K	1
GOLDEN EAGLE	AQCH1	7	K	1
GREAT HORNED OWL	BUV11	7	K	1
NORTHERN HARRIER	CICY1	7	L	1
ROUGH-LEGGED HAWK	BULA1	7	L	1
GREAT HORNED OWL	BUV11	7	M	4
NORTHERN HARRIER	CICY1	7	M	1
GREAT HORNED OWL	BUV11	7	N	2
RED-TAILED HAWK	BUJA1	7	N	1
GOLDEN EAGLE	AQCH1	7	Q	1
ROUGH-LEGGED HAWK	BULA1	7	Q	1
RED-TAILED HAWK	BUJA1	8	D	1
RED-TAILED HAWK	BUJA1	8	K	2
ROUGH-LEGGED HAWK	BULA1	8	L	1
AMERICAN KESTREL	FASPI	8	P	1
GREAT HORNED OWL	BUV11	8	P	1
PRAIRIE FALCON	FAME1	8	P	1
NORTHERN HARRIER	CICY1	9	R	1
AMERICAN KESTREL	FASPI	10	I	1
AMERICAN KESTREL	FASPI	10	N	1
NORTHERN HARRIER	CICY1	10	O	1
GREAT HORNED OWL	BUV11	10	P	1
GOLDEN EAGLE	AQCH1	10	Q	1
NORTHERN HARRIER	CICY1	10	R	1
ROUGH-LEGGED HAWK	BULA1	11	E	1
ROUGH-LEGGED HAWK	BULA1	11	G	1
AMERICAN KESTREL	FASPI	11	I	1
GREAT HORNED OWL	BUV11	11	I	1

RAPTOR AREA USE SUMMARY FOR 1996

SPECIES NAME	SPEC CODE	GRID N	GRID E	GROUP SIZE
GREAT HORNED OWL	BUVII	11	M	7
GREAT HORNED OWL	BUVII	11	N	3
GREAT HORNED OWL	BUVII	11	P	1
PRAIRIE FALCON	FAMEI	11	Q	2
FERRUGINOUS HAWK	BUREI	12	N	1
GREAT HORNED OWL	BUVII	12	N	1
MERLIN	FACOI	12	N	1
AMERICAN KESTREL	FASPI	12	O	1
RED-TAILED HAWK	BUJA1	12	Q	1
GREAT HORNED OWL	BUVII	13	F	2
NORTHERN HARRIER	CICYI	13	F	1
AMERICAN KESTREL	FASPI	13	G	2
GREAT HORNED OWL	BUVII	13	G	9
ROUGH-LEGGED HAWK	BULA1	13	G	1
NORTHERN HARRIER	CICYI	13	H	1
GOLDEN EAGLE	AQCHI	13	P	1
GREAT HORNED OWL	BUVII	13	R	1
COOPER'S HAWK	ACCOI	13	S	1
GREAT HORNED OWL	BUVII	13	S	3
GREAT HORNED OWL	BUVII	13	T	2
GREAT HORNED OWL	BUVII	13	U	2
GREAT HORNED OWL	BUVII	14	F	1
GREAT HORNED OWL	BUVII	14	H	1
GREAT HORNED OWL	BUVII	14	N	2
AMERICAN KESTREL	FASPI	14	Q	2
PRAIRIE FALCON	FAMEI	14	Q	1
ROUGH-LEGGED HAWK	BULA1	14	Q	1
NORTHERN HARRIER	CICYI	14	S	1
RED-TAILED HAWK	BUJA1	14	S	1
ROUGH-LEGGED HAWK	BULA1	14	S	1
GOLDEN EAGLE	AQCHI	15	F	1
GREAT HORNED OWL	BUVII	15	G	1
LONG-EARED OWL	ASOTI	15	G	2
RED-TAILED HAWK	BUJA1	15	G	1
RED-TAILED HAWK	BUJA1	15	I	1
GREAT HORNED OWL	BUVII	15	J	1
NORTHERN HARRIER	CICYI	15	O	1
AMERICAN KESTREL	FASPI	15	P	1
AMERICAN KESTREL	FASPI	16	J	1
BALD EAGLE	HALEI	16	J	1
GREAT HORNED OWL	BUVII	16	J	1
GREAT HORNED OWL	BUVII	16	K	1
ROUGH-LEGGED HAWK	BULA1	16	O	1
TURKEY VULTURE	CAAUI	17	O	2

HERPTILE AREA USE FOR 1996

SPECIES NAME	SPEC CODE	GRID N	GRID E	GROUP SIZE
BOREAL CHORUS FROG	PSTR1	2	T	18
BULLFROG	RACA1	2	T	1
WESTERN PAINTED TURTLE	CHPI1	2	U	6
BOREAL CHORUS FROG	PSTR1	3	K	4
WESTERN PAINTED TURTLE	CHPI1	3	R	3
WESTERN PAINTED TURTLE	CHPI1	3	T	1
WESTERN PLAINS GARTER SNAKE	THRA1	4	N	1
RED-SIDED GARTER SNAKE	THSI1	4	N	1
PRAIRIE RATTLESNAKE	CRVI1	4	Q	1
BOREAL CHORUS FROG	PSTR1	4	T	5
BOREAL CHORUS FROG	PSTR1	5	R	1
PRAIRIE RATTLESNAKE	CRVI1	5	S	1
BOREAL CHORUS FROG	PSTR1	5	S	3
PRAIRIE RATTLESNAKE	CRVI1	6	O	1
PRAIRIE RATTLESNAKE	CRVI1	6	P	1
BOREAL CHORUS FROG	PSTR1	7	G	1
BOREAL CHORUS FROG	PSTR1	7	J	2
BOREAL CHORUS FROG	PSTR1	7	K	7
TIGER SALAMANDER	AMTI1	8	L	1
BOREAL CHORUS FROG	PSTR1	8	L	5
PRAIRIE RATTLESNAKE	CRVI1	8	O	1
PRAIRIE RATTLESNAKE	CRVI1	9	R	1
BOREAL CHORUS FROG	PSTR1	10	D	2
WESTERN PAINTED TURTLE	CHPI1	10	O	3
BOREAL CHORUS FROG	PSTR1	10	O	37
SHORT-HORNED LIZARD	PHDO1	10	R	2
BOREAL CHORUS FROG	PSTR1	11	E	25
WESTERN PAINTED TURTLE	CHPI1	11	F	1
PRAIRIE RATTLESNAKE	CRVI1	11	F	2
BOREAL CHORUS FROG	PSTR1	11	H	2
BULLFROG	RACA1	11	P	1
BOREAL CHORUS FROG	PSTR1	11	Q	8
BOREAL CHORUS FROG	PSTR1	12	F	16
BOREAL CHORUS FROG	PSTR1	12	G	10
WESTERN PAINTED TURTLE	CHPI1	12	L	2
BOREAL CHORUS FROG	PSTR1	12	M	8
BOREAL CHORUS FROG	PSTR1	12	N	11
WESTERN PAINTED TURTLE	CHPI1	12	O	4
BOREAL CHORUS FROG	PSTR1	12	O	16
WESTERN PAINTED TURTLE	CHPI1	12	P	1
PRAIRIE RATTLESNAKE	CRVI1	12	P	1
BOREAL CHORUS FROG	PSTR1	12	P	8
BOREAL CHORUS FROG	PSTR1	13	G	18
WESTERN PAINTED TURTLE	CHPI1	13	H	15
BOREAL CHORUS FROG	PSTR1	13	L	7
BOREAL CHORUS FROG	PSTR1	13	S	1
BOREAL CHORUS FROG	PSTR1	15	G	6
NORTHERN LEOPARD FROG	RAPI1	16	K	1
NORTHERN LEOPARD FROG	RAPI1	17	K	1
BOREAL CHORUS FROG	PSTR1	17	N	15

Appendix E

Migratory Bird Data Summaries

Breeding Season 1991

Habitat = Wetlands

Species Richness = 24

Species	Week 1				Week 2				Week 3				Total				s	SE
	n	Sum d	Mean d	D	n	Sum d	Mean d	D	n	Sum d	Mean d	D	n	Sum d	Mean d	D		
Red-winged Blackbird	62	1415	22.8	4.528	106	2803	26.4	6.682	69	1461	21.2	5.432	237	5679	23.96	5.495	1.08	0.62
Western Meadowlark	18	1096	60.9	0.493	21	1253	59.7	0.587	9	436	48.4	0.310	48	2785	58.02	0.46	0.14	0.08
House Finch	26	1356	52.2	0.831	17	1609	94.7	0.299	12	958	79.8	0.251	55	3923	71.33	0.428	0.32	0.19
Mallard	8	230	28.8	0.464	3	15	5.0	1.000	4	115	28.8	0.232	15	360	24.00	0.347	0.39	0.23
Song Sparrow	6	70	11.7	0.857	5	152	30.4	0.274					11	222	20.18	0.303	0.44	0.25
Common Yellowthroat	3	45	15.0	0.333	3	55	18.3	0.273	2	40	20.0	0.167	8	140	17.50	0.254	0.08	0.05
European Starling	27	2700	100.0	0.450	2	200	100.0	0.033	4	315	78.8	0.085	33	3215	97.42	0.19	0.23	0.13
Barn Swallow	5	500	100.0	0.083	20	1880	94.0	0.355	4	400	100.0	0.067	29	2780	95.86	0.168	0.16	0.09
Mourning Dove	4	274	68.5	0.097	6	240	40.0	0.250	4	155	38.8	0.172	14	669	47.79	0.16	0.08	0.04
Common Grackle					6	205	34.2	0.293	3	75	25.0	0.200	9	280	31.11	0.16	0.15	0.09
Common Snipe	3	215	71.7	0.070	5	25	5.0	1.667					8	240	30.00	0.148	0.94	0.54
Northern Oriole	5	291	58.2	0.143	2	50	25.0	0.133	2	10	5.0	0.667	9	351	39.00	0.128	0.31	0.18
American Goldfinch					1	100	100.0	0.017	5	65	13.0	0.641	6	165	27.50	0.121	0.37	0.21
Black-crowned Night-heron					1	5	5.0	0.333					1	5	5.00	0.111	0.19	0.11
American Robin	1	5	5.0	0.333									1	5	5.00	0.11	0.19	0.11
Killdeer					3	97	32.3	0.155	2	30	15.0	0.222	5	127	25.40	0.109	0.11	0.07
Black-billed Magpie									4	180	45.0	0.148	4	180	45.00	0.05	0.09	0.05
Vesper Sparrow	2	174	87.0	0.038	1	15	15.0	0.111	1	25	25.0	0.067	4	214	53.50	0.04	0.04	0.02
Yellow Warbler	1	15	15.0	0.111									1	15	15.00	0.037	0.06	0.04
Say's Phoebe					4	311	77.8	0.086					4	311	77.75	0.03	0.05	0.03
Grasshopper Sparrow	1	87	87.0	0.019	1	45	45.0	0.037	1	45	45.0	0.037	3	177	59.00	0.028	0.01	0.01
Eastern Kingbird					1	35	35.0	0.048					1	35	35.00	0.02	0.03	0.02
Rufous-sided Towhee	1	87	87.0	0.019									1	87	87.00	0.01	0.01	0.01
Violet-green Swallow									1	100	100.0	0.017	1	100	100.00	0.01	0.01	0.01
Totals	173	8560	49.5	5.827	208	9095	43.7	7.928	127	4410	34.7	6.096	508	22065	43.44	6.50	1.14	0.66

Breeding Season 1993

Habitat = Wetlands

Species Richness = 30

Species	Week 1				Week 2				Week 3				Total				s	SE
	n	Sum d	Mean d	D	n	Sum d	Mean d	D	n	Sum d	Mean d	D	n	Sum d	Mean d	D		
Red-winged Blackbird	150	3005	20.0	12.481	110	1639	14.9	12.304	80	2039	25.5	5.231	340	6683	19.66	7.206	4.14	2.39
Western Meadowlark	28	1162	41.5	1.124	30	952	31.7	1.576	21	860	41.0	0.855	79	2974	37.65	0.87	0.36	0.21
Mallard	7	130	18.6	0.628	5	45	9.0	0.926	4	20	5.0	1.333	16	195	12.19	0.547	0.35	0.20
Common Snipe	3	15	5.0	1.000	5	25	5.0	1.667	5	95	19.0	0.439	13	135	10.38	0.522	0.61	0.35
Common Yellowthroat	4	90	22.5	0.296	14	277	19.8	1.179	7	152	21.7	0.537	25	519	20.76	0.50	0.46	0.26
Grasshopper Sparrow	8	302	37.8	0.353	5	115	23.0	0.362	10	354	35.4	0.471	23	771	33.52	0.286	0.07	0.04
American Robin					4	30	7.5	0.889					4	30	7.50	0.22	0.51	0.30
House Finch	4	400	100.0	0.067	12	850	70.8	0.282	14	775	55.4	0.421	30	2025	67.50	0.185	0.18	0.10
Blue Grosbeak					2	10	5.0	0.667					2	10	5.00	0.17	0.39	0.22
Song Sparrow	4	137	34.3	0.195	3	157	52.3	0.096	8	282	35.3	0.378	15	576	38.40	0.16	0.14	0.08
Mourning Dove	3	287	95.7	0.052	5	180	36.0	0.231	9	362	40.2	0.373	17	829	48.76	0.15	0.16	0.09
Barn Swallow	10	740	74.0	0.225	11	904	82.2	0.223	5	445	89.0	0.094	26	2089	80.35	0.14	0.08	0.04
Vesper Sparrow	4	120	30.0	0.222					7	332	47.4	0.246	11	452	41.09	0.11	0.14	0.08
Great Horned Owl	1	5	5.0	0.333									1	5	5.00	0.083	0.19	0.11
Yellow Warbler					2	20	10.0	0.333					2	20	10.00	0.083	0.19	0.11
Eastern Kingbird	2	30	15.0	0.222									2	30	15.00	0.06	0.13	0.07
Killdeer					2	60	30.0	0.111	1	35	35.0	0.048	3	95	31.67	0.039	0.06	0.03
Black-billed Magpie	1	100	100.0	0.017	2	40	20.0	0.167	1	100	100.0	0.017	4	240	60.00	0.03	0.09	0.05
Northern Oriole	1	45	45.0	0.037					1	35	35.0	0.048	2	80	40.00	0.02	0.03	0.01
Brown-headed Cowbird	2	90	45.0	0.074									2	90	45.00	0.02	0.04	0.02
Horned Lark	2	200	100.0	0.033					1	25	25.0	0.067	3	225	75.00	0.017	0.03	0.02
Eastern Phoebe					1	25	25.0	0.067					1	25	25.00	0.02	0.04	0.02
Common Grackle									2	105	52.5	0.063	2	105	52.50	0.02	0.04	0.02
Say's Phoebe	2	107	53.5	0.062									2	107	53.50	0.02	0.04	0.02
Savannah Sparrow	1	35	35.0	0.048									1	35	35.00	0.01	0.03	0.02
Swainson's Hawk	2	174	87.0	0.038									2	174	87.00	0.010	0.02	0.01
Loggerhead Shrike					1	45	45.0	0.037					1	45	45.00	0.01	0.02	0.01
Brewer's Blackbird					1	62	62.0	0.027					1	62	62.00	0.007	0.02	0.01
American Goldfinch	3	300	100.0	0.050					4	320	80.0	0.083	7	620	88.57	0.044	0.02	0.01
Common Nighthawk					1	100	100.0	0.017					1	100	100.00	0.004	0.01	0.01
	242	7474	30.9	13.059	216	5536	25.6	14.046	180	6336	35.2	8.523	638	19346	30.32	11.69	2.95	1.70

Breeding Season 1994

Habitat = Wetlands

Species Richness = 29

Species	Week 1				Week 2				Week 3				Week 4				Total				s	SE
	n	Sum d	Mean d	D	n	Sum d	Mean d	D	n	Sum d	Mean d	D	n	Sum d	Mean d	D	n	Sum d	Mean d	D		
Red-winged Blackbird	66	1270	19.2	5.717	60	1215	20.3	4.938	107	2295	21.5	8.314	88	2030	23.07	6.36	321	6810	21.21	6.31	1.44	0.72
Common Snipe	1	5	5.0	0.333	8	185	23.1	0.576	9	225	25.0	0.600	5	35	7.00	1.19	23	450	19.57	0.49	0.36	0.18
Common Yellowthroat	4	90	22.5	0.296	2	30	15.0	0.222	8	170	21.3	0.627	9	145	16.11	0.93	23	435	18.91	0.51	0.33	0.16
Great Blue Heron													1	5	5.00	0.33	1	5	5.00	0.08	0.17	0.08
Northern Oriole	2	60	30.0	0.111					1	55	55.0	0.030	1	5	5.00	0.33	4	120	30.00	0.06	0.15	0.08
Mourning Dove	6	320	53.3	0.188	1	100	100.0	0.017	5	220	44.0	0.189	1	5.00	5.00	0.33	13	645	49.62	0.11	0.13	0.06
Song Sparrow	5	95	19.0	0.439	3	25	8.3	0.600	7	220	31.4	0.371	6	250	41.67	0.24	21	590	28.10	0.31	0.15	0.07
Western Meadowlark	7	285	40.7	0.287	8	395	49.4	0.270	12	640	53.3	0.375	7	345.00	49.29	0.24	34	1665	48.97	0.29	0.06	0.03
American Kestrel									1	85	85.0	0.020	3	105	35	0.14	4	190	47.50	0.04	0.07	0.03
Grasshopper Sparrow	5	165	33.0	0.253	2	80	40.0	0.083	8	210	26.3	0.508	2	60	30.00	0.11	17	515	30.29	0.23	0.19	0.10
Vesper Sparrow	2	70	35.0	0.095	5	240	48.0	0.174	3	125	41.7	0.120	1	25	25.00	0.07	11	460	41.82	0.11	0.05	0.02
House Finch	4	400	100.0	0.067	10	660	66.0	0.253	5	500	100.0	0.083	2	200	100	0.03	21	1760	83.81	0.10	0.10	0.05
American Goldfinch	3	55	18.3	0.273	4	240	60.0	0.111	1	55	55.0	0.030	2	200	100	0.03	10	550	55.00	0.08	0.11	0.06
Common Grackle					1	100	100.0	0.017	1	5	5.0	0.333	2	200.00	100.00	0.03	4	305	76.25	0.02	0.18	0.09
Cliff Swallow					2	200	100.0	0.033	2	200	100.0	0.033	1	100	100.00	0.02	5	500	100.00	0.02	0.02	0.01
Brown-headed Cowbird	2	90	45.0	0.074									1	100	100.00	0.02	3	190	63.33	0.02	0.04	0.02
European Starling	1	100	100.0	0.017					2	125	62.5	0.053	1	100.00	100.00	0.02	4	325	81.25	0.02	0.02	0.01
Cinnamon Teal					2	10	5.0	0.667									2	10	5.00	0.17	0.33	0.17
Mallard	7	465	66.4	0.176	4	20	5.0	1.333									11	485	44.09	0.10	0.64	0.32
Red-tailed Hawk					1	100	100.0	0.017									1	100	100.00	0.00	0.01	0.00
Northern Flicker	1	65	65.0	0.026													1	65	65.00	0.01	0.01	0.01
Horned Lark	1	25	25.0	0.067													1	25	25.00	0.02	0.03	0.02
Blue Grosbeak					1	15	15.0	0.111									1	15	15.00	0.03	0.06	0.03
Barn Swallow	8	725	90.6	0.147	11	1045	95.0	0.193	15	1500	100.0	0.250					34	3270	96.18	0.15	0.11	0.05
Rufous-sided Towhee									1	65	65.0	0.026					1	65	65.00	0.01	0.01	0.01
Black-billed Magpie	1	85	85.0	0.020					1	65	65.0	0.026					2	150	75.00	0.01	0.01	0.01
Say's Phoebe	1	45	45.0	0.037	1	15	15.0	0.111	2	10	5.0	0.667					4	70	17.50	0.10	0.34	0.17
Eastern Kingbird	1	25	25.0	0.067													1	25	25.00	0.02	0.03	0.02
Western Kingbird					1	25	25.0	0.067									1	25	25.00	0.02	0.03	0.02
	128	4440	34.7	6.150	127	4700	37.0	5.720	191	6770	35.4	8.981	133	3910	29.40	7.54	579	19820	34.23	7.05	1.48	0.74

Breeding Season 1995

Habitat = Wetlands

Species Richness = 25

Species	Week 1				Week 2				Week 3				Week 4				Total					
	n	Sum d	Mean d	D	n	Sum d	Mean d	D	n	Sum d	Mean d	D	n	Sum d	Mean d	D	n	Sum d	Mean d	D	s	SE
Red-winged Blackbird	64	1352	21.1	5.048	77	1205	15.7	8.200	49	1015	20.7	3.943	59	1125	19.07	5.16	249	4697	18.86	5.50	1.83	0.91
Mourning Dove	7	275	39.3	0.297	5	65	13.0	0.641	5	225	45.0	0.185	5.00	35.00	7.00	1.19	22	600	27.27	0.34	0.45	0.23
Common Yellowthroat	7	105	15.0	0.778	13	165	12.7	1.707	8	140	17.5	0.762	7	75	10.71	1.09	35	485	13.86	1.05	0.44	0.22
Common Snipe	2	105	52.5	0.063	4	50	12.5	0.533	3	25	8.3	0.600	3	25	8.33	0.60	12	205	17.08	0.29	0.26	0.13
Song Sparrow	7	105	15.0	0.778	8	90	11.3	1.185	9	142	15.8	0.951	4	50	12.50	0.53	28	387	13.82	0.84	0.28	0.14
House Finch	2	20	10.0	0.333	2	10	5.0	0.667	1	100	100.0	0.017	8	255	31.88	0.42	13	385	29.62	0.18	0.27	0.13
Mallard	5	310	62.0	0.134	1	5	5.0	0.333	1	100	100.0	0.017	1	5	5	0.33	8	420	52.50	0.06	0.16	0.08
American Kestrel													1	5	5	0.33	1	5	5.00	0.08	0.17	0.08
Say's Phoebe													1	5	5	0.33	1	5	5.00	0.08	0.17	0.08
Western Meadowlark	4	172	43.0	0.155	5	190	38.0	0.219					6	205	34.17	0.29	15	567	37.80	0.17	0.12	0.06
Vesper Sparrow	1	87	87.0	0.019	2	30	15.0	0.222	3	75	25.0	0.200	5	160	32	0.26	11	352	32.00	0.14	0.11	0.05
Grasshopper Sparrow	1	5	5.0	0.333	1	25	25.0	0.067					1	15	15.00	0.11	3	45	15.00	0.08	0.14	0.07
Brewer's Blackbird													1	15	15	0.11	1	15	15.00	0.03	0.06	0.03
American Robin													1.00	15.00	15.00	0.11	1	15	15.00	0.03	0.06	0.03
American Goldfinch	1	25	25.0	0.067	2	200	100.0	0.033	2	50	25.0	0.133	6	600	100.00	0.10	11	875	79.55	0.06	0.04	0.02
Rufous-sided Towhee													1	25	25.00	0.07	1	25	25.00	0.02	0.03	0.02
Barn Swallow	7	700	100.0	0.117	7	700	100.0	0.117					2	200	100.00	0.03	16	1600	100.00	0.07	0.06	0.03
Common Nighthawk	1	100	100.0	0.017	2	200	100.0	0.033	1	35	35.0	0.048					4	335	83.75	0.02	0.02	0.01
Yellow Warbler									1	62	62.0	0.027					1	62	62.00	0.01	0.01	0.01
Northern Oriole					1	5	5.0	0.333	1	100	100.0	0.017					2	105	52.50	0.02	0.16	0.08
Common Grackle									2	124	62.0	0.054					2	124	62.00	0.01	0.03	0.01
European Starling	1	62	62.0	0.027					3	262	87.3	0.057					4	324	81.00	0.02	0.03	0.01
Tree Swallow	1	100	100.0	0.017													1	100	100.00	0.00	0.01	0.00
Eastern Kingbird					1	5	5.0	0.333									1	5	5.00	0.08	0.17	0.08
Western Kingbird	1	25	25.0	0.067													1	25	25.00	0.02	0.03	0.02
	112	3548	31.7	5.893	131	2945	22.5	9.712	89	2455	27.6	5.377	112	2815	25.13	7.43	444	11763	26.49	6.98	1.95	0.97

Breeding Season 1996

Habitat = Wetlands

Species Richness = 24

Species	Week 1				Week 2				Week 3				Week 4				Total				s	SE
	n	Sum d	Mean d	D	n	Sum d	Mean d	D	n	Sum d	Mean d	D	n	Sum d	Mean d	D	n	Sum d	Mean d	D		
Red-winged Blackbird	60	725	12.1	8.278	62	525	8.5	12.200	61	945	15.5	6.563	59	1175	19.9	4.936	242	3370	13.9	7.239	3.12	1.56
Common Yellowthroat	4	50	12.5	0.533	2	30	15.0	0.222	6	100	16.7	0.600	5	75	15.0	0.556	17	255	15.0	0.472	0.17	0.09
Song Sparrow	2	40	20.0	0.167	5	55	11.0	0.758	4	60	15.0	0.444	2	30	15.0	0.222	13	185	14.2	0.381	0.27	0.13
Brewer's Blackbird									10	130	13.0	1.282					10	130	13.0	0.321	0.64	0.32
Mallard									2	10	5.0	0.667	3	25	8.3	0.600	5	35	7.0	0.298	0.37	0.18
Western Meadowlark	4	70	17.5	0.381	4	40	10.0	0.667	5	160	32.0	0.260	2	50	25.0	0.133	15	320	21.3	0.293	0.23	0.11
Common Grackle													12	225	18.8	1.067	12	225	18.8	0.267	0.53	0.27
Common Snipe	2	30	15.0	0.222	5	75	15.0	0.556					3	85	28.3	0.176	10	190	19.0	0.219	0.23	0.12
American Robin	1	5	5.0	0.333	1	5	5.0	0.333	1	25	25.0	0.067	2	20	10.0	0.333	5	55	11.0	0.189	0.13	0.07
Mourning Dove	6	335	55.8	0.179	2	40	20.0	0.167	3	130	43.3	0.115	4	30	7.5	0.889	15	535	35.7	0.175	0.37	0.18
Grasshopper Sparrow	3	65	21.7	0.231	3	65	21.7	0.231	2	40	20.0	0.167	1	25	25.0	0.067	9	195	21.7	0.173	0.08	0.04
Killdeer	1	5	5.0	0.333	2	20	10.0	0.333									3	25	8.3	0.150	0.19	0.10
Vesper Sparrow	1	15	15.0	0.111	1	15	15.0	0.111	3	140	46.7	0.107	3	15	5.0	1.000	8	185	23.1	0.144	0.45	0.22
European Starling	1	100	100.0	0.017					4	60	15.0	0.444	9	450	50.0	0.300	14	610	43.6	0.134	0.22	0.11
House Finch	5	225	45.0	0.185					3	105	35.0	0.143	3	205	68.3	0.073	11	535	48.6	0.094	0.08	0.04
Great Blue Heron									1	5	5.0	0.333					1	5	5.0	0.083	0.17	0.08
Great Horned Owl					1	15	15.0	0.111					1	5	5.0	0.333	2	20	10.0	0.083	0.16	0.08
American Goldfinch					1	5	5.0	0.333	6	600	100.0	0.100	2	30	15.0	0.222	9	635	70.6	0.053	0.14	0.07
Marsh Wren	1	15	15.0	0.111													1	15	15.0	0.028	0.06	0.03
Common Nighthawk									3	300	100.0	0.050	3	300	100.0	0.050	6	600	100.0	0.025	0.03	0.01
Barn Swallow	1	100	100.0	0.017	2	200	100.0	0.033	1	100	100.0	0.017					4	400	100.0	0.017	0.01	0.01
Green-winged Teal					1	25	25.0	0.067									1	25	25.0	0.017	0.03	0.02
Black-billed Magpie	1	100	100.0	0.017					1	15	15.0	0.111					2	115	57.5	0.014	0.05	0.03
Say's Phoebe									1	62	62.0	0.027					1	62	62.0	0.007	0.01	0.01
	93	1880	20.2	7.668	92	1115	12.1	12.652	117	2987	25.5	7.638	114	2745	24.1	7.891	416	8727	21.0	8.262	35.85	17.92

Breeding Season 1991

Woodland

Habitat = Riparian Woodland Complex

Species Richness = 28

Species	Week 1				Week 2				Week 3				Total				s	SE
	n	Sum d	Mean d	D	n	Sum d	Mean d	D	n	Sum d	Mean d	D	n	Sum d	Mean d	D		
House Finch	10	70	7.0	2.381	43	845	19.7	3.647	101	1670	16.5	10.184	154	2585	16.8	5.095	4.19	2.42
Northern Oriole	7	140	20.0	0.583	16	130	8.1	3.280	13	220	16.9	1.281	36	490	13.6	1.470	1.40	0.81
American Goldfinch	19	215	11.3	2.797	9	55	6.1	2.455	3	110	36.7	0.136	31	380	12.3	1.405	1.45	0.84
Song Sparrow	9	45	5.0	3.000	5	65	13.0	0.641	7	85	12.1	0.961	21	195	9.3	1.256	1.28	0.74
Yellow Warbler	7	35	5.0	2.333	2	10	5.0	0.667	2	10	5.0	0.667	11	55	5.0	1.222	0.96	0.56
Red-winged Blackbird	40	1984	49.6	1.344	20	521	26.1	1.280	19	605	31.8	0.995	79	3110	39.4	1.115	0.19	0.11
Vesper Sparrow	1	5	5.0	0.333	2	30	15.0	0.222	14	110	7.9	2.969	17	145	8.5	1.107	1.55	0.90
European Starling	2	200	100.0	0.033	32	1300	40.6	1.313	24	215	9.0	4.464	58	1715	29.6	1.090	2.28	1.32
Mourning Dove	29	1572	54.2	0.892	19	690	36.3	0.872	16	515	32.2	0.828	64	2777	43.4	0.819	0.03	0.02
Western Kingbird	4	20	5.0	1.333	8	110	13.8	0.970	6	122	20.3	0.492	18	252	14.0	0.714	0.42	0.24
Red-tailed Hawk	6	30	5.0	2.000	5	140	28.0	0.298	8	132	16.5	0.808	19	302	15.9	0.664	0.87	0.50
Western Meadowlark	16	1023	63.9	0.417	14	709	50.6	0.461	26	990	38.1	1.138	56	2722	48.6	0.640	0.40	0.23
Eastern Kingbird	4	30	7.5	0.889	3	45	15.0	0.333	1	5	5.0	0.333	8	80	10.0	0.444	0.32	0.19
Brewer's Blackbird	15	530	35.3	0.708	8	647	80.9	0.165	5	215	43.0	0.194	28	1392	49.7	0.313	0.31	0.18
Horned Lark									2	10	5.0	0.667	2	10	5.0	0.222	0.39	0.22
Brown-headed Cowbird					2	10	5.0	0.667					2	10	5.0	0.222	0.39	0.22
Warbling Vireo	1	5	5.0	0.333	1	5	5.0	0.333					2	10	5.0	0.222	0.19	0.11
Common Yellowthroat					3	25	8.3	0.600					3	25	8.3	0.200	0.35	0.20
Common Grackle	2	105	52.5	0.063	1	5	5.0	0.333	4	30	7.5	0.889	7	140	20.0	0.194	0.42	0.24
Blue Grosbeak	2	10	5.0	0.667	4	210	52.5	0.127	2	92	46.0	0.072	8	312	39.0	0.114	0.33	0.19
Lesser Goldfinch					1	5	5.0	0.333					1	5	5.0	0.111	0.19	0.11
Rufous-sided Towhee	2	10	5.0	0.667					1	35	35.0	0.048	3	45	15.0	0.111	0.37	0.21
Say's Phoebe	1	5	5.0	0.333									1	5	5.0	0.111	0.19	0.11
House Wren	1	5	5.0	0.333									1	5	5.0	0.111	0.19	0.11
Killdeer									3	120	40.0	0.125	3	120	40.0	0.042	0.07	0.04
Black-billed Magpie	1	35	35.0	0.048	2	200	100.0	0.033					3	235	78.3	0.021	0.02	0.01
Common Nighthawk									1	100	100.0	0.017	1	100	100.0	0.006	0.01	0.01
Barn Swallow					1	100	100.0	0.017					1	100	100.0	0.006	0.01	0.01
Totals	179	6074	33.9	8.792	201	5857	29.1	11.496	258	5391	20.9	20.579	638	17322	27.2	13.055	6.17	3.56

Breeding Season 1993

Woodland

Habitat = Riparian Woodland Complex

Species Richness = 28

Species	Week 1				Week 2				Week 3				Total				s	SE
	n	Sum d	Mean d	D	n	Sum d	Mean d	D	n	Sum d	Mean d	D	n	Sum d	Mean d	D		
Yellow Warbler					6	30	5.0	2.000	11	55	5.0	3.667	17	85	5.0	1.417	1.18	0.68
House Finch	40	620	15.5	4.301	16	435	27.2	0.981	29	1252	43.2	1.120	85	2307	27.1	1.305	1.88	1.08
Northern Oriole	9	55	6.1	2.455	5	35	7.0	1.190	9	85	9.4	1.589	23	175	7.6	1.259	0.65	0.37
Western Meadowlark	16	935	58.4	0.456	48	1224	25.5	3.137	29	1397	48.2	1.003	93	3556	38.2	1.013	1.42	0.82
Brewer's Blackbird	43	995	23.1	3.097	8	230	28.8	0.464	35	2740	78.3	0.745	86	3965	46.1	0.777	1.45	0.83
American Goldfinch	12	130	10.8	1.847	10	525	52.5	0.317	28	1070	38.2	1.221	50	1725	34.5	0.604	0.77	0.44
Blue Grosbeak	2	10	5.0	0.667	1	5	5.0	0.333	2	10	5.0	0.667	5	25	5.0	0.417	0.19	0.11
Song Sparrow	6	132	22.0	0.455	1	15	15.0	0.111	9	212	23.6	0.637	16	359	22.4	0.297	0.27	0.15
Vesper Sparrow									10	150	15.0	1.111	10	150	15.0	0.278	0.64	0.37
European Starling	10	385	38.5	0.433	2	105	52.5	0.083	10	430	43.0	0.388	22	920	41.8	0.219	0.20	0.12
Mourning Dove	3	120	40.0	0.125	12	245	20.4	0.979	7	592	84.6	0.138	22	957	43.5	0.211	0.49	0.28
Rufous-sided Towhee	4	60	15.0	0.444					2	20	10.0	0.333	6	80	13.3	0.188	0.23	0.13
Great Horned Owl									2	10	5.0	0.667	2	10	5.0	0.167	0.39	0.22
Wilson's Warbler					4	40	10.0	0.667					4	40	10.0	0.167	0.39	0.22
Red-winged Blackbird	6	415	69.2	0.145	9	720	80.0	0.188	3	150	50.0	0.100	18	1285	71.4	0.105	0.04	0.03
Common Yellowthroat	1	5	5.0	0.333									1	5	5.0	0.083	0.19	0.11
House Wren					1	5	5.0	0.333					1	5	5.0	0.083	0.19	0.11
Eastern Kingbird	1	15	15.0	0.111	1	5	5.0	0.333					2	20	10.0	0.083	0.17	0.10
Western Kingbird													1	5	5.0	0.083	0.00	0.00
Red-tailed Hawk	3	110	36.7	0.136					3	110	36.7	0.136	6	220	36.7	0.068	0.08	0.05
Barn Swallow	4	400	100.0	0.067	4	400	100.0	0.067	6	600	100.0	0.100	14	1400	100.0	0.058	0.02	0.01
Grasshopper Sparrow					4	273	68.3	0.098	2	50	25.0	0.133	6	323	53.8	0.046	0.07	0.04
Brown-headed Cowbird	2	50	25.0	0.133					4	400	100.0	0.067	6	450	75.0	0.033	0.07	0.04
Black-billed Magpie					1	15	15.0	0.111					1	15	15.0	0.028	0.06	0.04
Common Grackle									2	115	57.5	0.058	2	115	57.5	0.014	0.03	0.02
Tree Swallow					1	100	100.0	0.017	1	100	100.0	0.017	2	200	100.0	0.008	0.01	0.01
Turkey Vulture					1	100	100.0	0.017					1	100	100.0	0.004	0.01	0.01
Cliff Swallow	1	100	100.0	0.017									1	100	100.0	0.004	0.01	0.01
	163	4537	27.8	9.760	135	4507	33.4	6.740	204	9548	46.8	7.264	502	18592	37.0	7.530	1.61	0.93

Breeding Season 1994

Habitat = Riparian Woodland Complex

Species Richness = 31

Woodland

Species	Week 1				Week 2				Week 3				Week 4				Total				s	SE
	n	Sum d	Mean d	D	n	Sum d	Mean d	D	n	Sum d	Mean d	D	n	Sum d	Mean d	D	n	Sum d	Mean d	D		
House Finch	22	485	22.1	1.663	14	70	5.0	4.667	26	180	6.9	6.262	20	100	5.0	6.667	82	835	10.2	3.356	2.27	1.14
Vesper Sparrow	3	75	25.0	0.200	8	60	7.5	1.778	5	65	13.0	0.641	19	205	10.8	2.935	35	405	11.6	1.260	1.23	0.61
Song Sparrow	14	130	9.3	2.512	7	35	5.0	2.333	7	150	21.4	0.544	10	60	6.0	2.778	38	375	9.9	1.604	1.02	0.51
Northern Oriole	7	45	6.4	1.814	10	50	5.0	3.333	18	150	8.3	3.601	12	155	12.9	1.548	47	400	8.5	2.301	1.04	0.52
European Starling	10	300	30.0	0.556	6	375	62.5	0.160	28	180	6.4	7.258	14	260	18.6	1.257	58	1115	19.2	1.257	3.33	1.67
Western Meadowlark	21	1040	49.5	0.707	20	665	33.3	1.003	14	320	22.9	1.021	16	365	22.8	1.169	71	2390	33.7	0.879	0.19	0.10
Brown-headed Cowbird	13	215	16.5	1.310	2	105	52.5	0.063	11	95	8.6	2.122	3	15	5.0	1.000	29	430	14.8	0.815	0.85	0.43
Western Kingbird					6	130	21.7	0.461	3	25	8.3	0.600	5	55	11.0	0.758	14	210	15.0	0.389	0.33	0.16
Mourning Dove	3	215	71.7	0.070	9	200	22.2	0.675	8	40	5.0	2.667	13	390	30.0	0.722	33	845	25.6	0.537	1.13	0.56
American Goldfinch	13	180	13.9	1.564	16	375	23.4	1.138	2	30	15.0	0.222	8	230	28.8	0.464	39	815	20.9	0.778	0.62	0.31
Brewer's Blackbird	3	300	100.0	0.050	57	2385	41.8	2.271	6	505	84.2	0.119	5	120	24.0	0.347	71	3310	46.6	0.635	1.06	0.53
Great Horned Owl	1	5	5.0	0.333	1	5	5.0	0.333					1	5	5.0	0.333	3	15	5.0	0.250	0.17	0.08
Yellow Warbler									2	10	5.0	0.667	1	5	5.0	0.333	3	15	5.0	0.250	0.32	0.16
Rufous-sided Towhee	1	15	15.0	0.111									1	5	5.0	0.333	2	20	10.0	0.083	0.16	0.08
American Kestrel	1	5	5.0	0.333					1	5	5.0	0.333	3	130	43.3	0.115	5	140	28.0	0.074	0.17	0.08
American Robin					1	5	5.0	0.333					2	200	100.0	0.033	3	205	68.3	0.018	0.16	0.08
Red-winged Blackbird	10	635	63.5	0.262	15	465	31.0	0.806	2	105	52.5	0.063	1	100	100.0	0.017	27	1205	44.6	0.252	0.36	0.18
Northern Flicker	1	5	5.0	0.333									1	100	100.0	0.017	2	105	52.5	0.016	0.16	0.08
Barn Swallow	9	900	100.0	0.150	19	1900	100.0	0.317	4	400	100.0	0.067	1	100	100.0	0.017	33	3300	100.0	0.138	0.13	0.07
Red-tailed Hawk	3	110	36.7	0.136	1	100	100.0	0.017	1	100	100.0	0.017					6	410	68.3	0.037	0.06	0.03
Lesser Goldfinch					2	10	5.0	0.667	2	10	5.0	0.667					4	20	5.0	0.333	0.39	0.19
Killdeer					1	100	100.0	0.017	2	30	15.0	0.222					3	130	43.3	0.029	0.11	0.05
Common Yellowthroat	1	5	5.0	0.333													1	5	5.0	0.083	0.17	0.08
Blue Grosbeak	2	10	5.0	0.667	6	30	5.0	2.000									8	40	5.0	0.667	0.94	0.47
Cliff Swallow	3	300	100.0	0.050	1	100	100.0	0.017	2	200	100.0	0.033					6	600	100.0	0.025	0.02	0.01
Black-billed Magpie	1	45	45.0	0.037	1	5	5.0	0.333	1	100	100.0	0.017					3	150	50.0	0.025	0.16	0.08
Common Grackle					1	100	100.0	0.017	1	5	5.0	0.333					2	105	52.5	0.016	0.16	0.08
Say's Phoebe					1	75	75.0	0.022									1	75	75.0	0.006	0.01	0.01
House Wren	1	5	5.0	0.333													1	5	5.0	0.083	0.17	0.08
Eastern Kingbird	2	20	10.0	0.333					1	25	25.0	0.067					3	45	15.0	0.083	0.16	0.08
Warbling Vireo					1	5	5.0	0.333									1	5	5.0	0.083	0.17	0.08
	145	5045	34.8	6.946	206	7350	35.7	9.623	147	2730	18.6	13.192	136	2600	19.1	11.856	634	17725	28.0	9.449	2.74	1.37

Breeding Season 1995

Habitat = Riparian Woodland Complex
Species Richness = 33

Woodland

Species	Week 1				Week 2				Week 3				Week 4				Total				s	SE
	n	Sum d	Mean d	D	n	Sum d	Mean d	D	n	Sum d	Mean d	D	n	Sum d	Mean d	D	n	Sum d	Mean d	D		
House Finch	3	45	15.0	0.333	3	15	5.0	1.000	11	205	18.6	0.984	10	50	5.0	3.333	27	315	11.7	0.964	1.32	0.66
Northern Oriole	5	25	5.0	1.667	7	65	9.3	1.256	12	60	5.0	4.000	10	70	7.0	2.381	34	220	6.5	2.190	1.21	0.60
Song Sparrow	9	55	6.1	2.455	6	60	10.0	1.000	6	50	8.3	1.200	12	120	10.0	2.000	33	285	8.6	1.591	0.68	0.34
European Starling	16	575	35.9	0.742	24	320	13.3	3.001	31	1270	41.0	1.261	16	330	20.6	1.293	87	2495	28.7	1.264	0.98	0.49
Yellow Warbler	1	100	100.0	0.017	5	25	5.0	1.667	3	55	18.3	0.273	3	15	5.0	1.000	12	195	16.3	0.308	0.75	0.37
Western Meadowlark	8	100	12.5	1.067	7	147	21.0	0.556	13	225	17.3	1.252	14	345	24.6	0.947	42	817	19.5	0.900	0.29	0.15
American Goldfinch	10	335	33.5	0.498	7	130	18.6	0.628	16	495	30.9	0.862	11	295	26.8	0.684	44	1255	28.5	0.643	0.15	0.08
Brewer's Blackbird	10	100	10.0	1.667	9	55	6.1	2.455	21	675	32.1	1.089	2	10	5.0	0.667	42	840	20.0	0.875	0.77	0.39
Mourning Dove	12	470	39.2	0.511	14	405	28.9	0.807	8	135	16.9	0.790	11	305	27.7	0.661	45	1315	29.2	0.642	0.14	0.07
Western Kingbird	2	10	5.0	0.667					9	140	15.6	0.964	6	110	18.3	0.546	17	260	15.3	0.463	0.40	0.20
Red-winged Blackbird	7	170	24.3	0.480	12	585	48.8	0.410					1	5	5.0	0.333	20	760	38.0	0.219	0.21	0.11
Common Yellowthroat	2	20	10.0	0.333	3	25	8.3	0.600					1	5	5.0	0.333	6	50	8.3	0.300	0.25	0.12
Brown-headed Cowbird	4	30	7.5	0.889	2	10	5.0	0.667	2	105	52.5	0.063	1	5	5.0	0.333	9	150	16.7	0.225	0.36	0.18
Rufous-sided Towhee					2	67	33.5	0.100	2	50	25.0	0.133	1	5	5.0	0.333	5	122	24.4	0.085	0.14	0.07
Vesper Sparrow	3	25	8.3	0.600	3	25	8.3	0.600	5	112	22.4	0.372	4	120	30.0	0.222	15	282	18.8	0.332	0.19	0.09
Barn Swallow	8	705	88.1	0.151	8	705	88.1	0.151	1	100	100.0	0.017	3	300	100.0	0.050	20	1810	90.5	0.092	0.07	0.03
Grasshopper Sparrow	1	25	25.0	0.067					1	25	25.0	0.067	1	35	35.0	0.048	3	85	28.3	0.044	0.03	0.02
Cliff Swallow					3	300	100.0	0.050					2	200	100.0	0.033	5	500	100.0	0.021	0.02	0.01
American Kestrel	1	100	100.0	0.017									1	62	62.0	0.027	2	162	81.0	0.010	0.01	0.01
Green-tailed Towhee													1	87	87.0	0.019	1	87	87.0	0.005	0.01	0.00
Red-tailed Hawk	1	5	5.0	0.333	3	205	68.3	0.073	2	10	5.0	0.667	1	100	100.0	0.017	7	320	45.7	0.064	0.30	0.15
Mallard	6	515	85.8	0.117	1	100	100.0	0.017	5	310	62.0	0.134					12	925	77.1	0.065	0.07	0.03
Great Blue Heron	1	100	100.0	0.017													1	100	100.0	0.004	0.01	0.00
Lesser Goldfinch									5	55	11.0	0.758					5	55	11.0	0.189	0.38	0.19
Yellow-rumped Warbler	1	5	5.0	0.333													1	5	5.0	0.083	0.17	0.08
Blue Grosbeak					2	10	5.0	0.667	1	5	5.0	0.333					3	15	5.0	0.250	0.32	0.16
Common Merganser	1	15	15.0	0.111													1	15	15.0	0.028	0.06	0.03
Black-capped Chickadee	1	5	5.0	0.333													1	5	5.0	0.083	0.17	0.08
Eastern Phoebe	2	10	5.0	0.667													2	10	5.0	0.167	0.33	0.17
Say's Phoebe	1	35	35.0	0.048	1	5	5.0	0.333	1	5	5.0	0.333					3	45	15.0	0.083	0.18	0.09
American Robin					1	5	5.0	0.333	1	5	5.0	0.333					2	10	5.0	0.167	0.19	0.10
Eastern Kingbird	1	5	5.0	0.333	2	20	10.0	0.333	2	10	5.0	0.667					5	35	7.0	0.298	0.27	0.14
White-crowned Sparrow					1	5	5.0	0.333									1	5	5.0	0.083	0.17	0.08
	117	3585	30.6	6.364	126	3289	26.1	8.045	158	4102	26.0	10.143	112	2574	23.0	8.122	513	13550	26.4	8.093	1.55	0.77

Woodland

Breeding Season 1996

Habitat = Riparian Woodland Complex

Species Richness = 33

Species	Week 1				Week 2				Week 3				Week 4				Total				s	SE
	n	Sum d	Mean d	D	n	Sum d	Mean d	D	n	Sum d	Mean d	D	n	Sum d	Mean d	D	n	Sum d	Mean d	D		
House Finch	10	240	24.0	0.694	16	150	9.4	2.843	35	510	14.6	4.004	32	200	6.3	8.533	93	1100	11.8	3.276	3.31	1.65
European Starling	8	70	8.8	1.524	67	1790	26.7	4.179	26	1130	43.5	0.997	73	1240	17.0	7.161	174	4230	24.3	2.982	2.83	1.42
Northern Oriole	10	50	5.0	3.333	13	95	7.3	2.964	10	60	6.0	2.778	8	70	8.8	1.524	41	275	6.7	2.546	0.79	0.39
Song Sparrow	9	45	5.0	3.000	6	30	5.0	2.000	4	20	5.0	1.333	10	60	6.0	2.778	29	155	5.3	2.263	0.76	0.38
Yellow Warbler	6	30	5.0	2.000	5	75	15.0	0.556	6	30	5.0	2.000	4	40	10.0	0.667	21	175	8.3	1.050	0.80	0.40
Western Meadowlark	23	505	22.0	1.746	9	155	17.2	0.871	48	3035	63.2	1.265	17	260	15.3	1.853	97	3955	40.8	0.991	0.45	0.23
Mourning Dove	9	340	37.8	0.397	8	280	35.0	0.381	17	430	25.3	1.120	17	220	12.9	2.190	51	1270	24.9	0.853	0.85	0.43
American Goldfinch	15	75	5.0	5.000	11	635	57.7	0.318	11	240	21.8	0.840	8	440	55.0	0.242	45	1390	30.9	0.607	2.28	1.14
Eastern Kingbird	1	5	5.0	0.333	1	5	5.0	0.333					5	25	5.0	1.667	7	35	5.0	0.583	0.74	0.37
Red-winged Blackbird	6	60	10.0	1.000	8	300	37.5	0.356	5	45	9.0	0.926	1	5	5.0	0.333	20	410	20.5	0.407	0.36	0.18
Red-tailed Hawk	1	5	5.0	0.333	4	20	5.0	1.333	1	15	15.0	0.111					6	40	6.7	0.375	0.61	0.30
American Robin	2	10	5.0	0.667	2	40	20.0	0.167	5	45	9.0	0.926	2	40	20.0	0.167	11	135	12.3	0.374	0.38	0.19
Blue Grosbeak					2	10	5.0	0.667	1	5	5.0	0.333	1	5	5.0	0.333	4	20	5.0	0.333	0.27	0.14
Brown-headed Cowbird	8	325	40.6	0.328	10	430	43.0	0.388	6	125	20.8	0.480					24	880	36.7	0.273	0.21	0.10
Western Kingbird	2	20	10.0	0.333	4	20	5.0	1.333	1	35	35.0	0.048					7	75	10.7	0.272	0.62	0.31
Green-tailed Towhee	1	5	5.0	0.333					2	10	5.0	0.667					3	15	5.0	0.250	0.32	0.16
Great Horned Owl	1	5	5.0	0.333	4	70	17.5	0.381	1	5	5.0	0.333	2	30	15.0	0.222	8	110	13.8	0.242	0.07	0.03
Vesper Sparrow	5	70	14.0	0.595	4	100	25.0	0.267	1	5	5.0	0.333	2	115	57.5	0.058	12	290	24.2	0.207	0.22	0.11
Common Grackle													5	55	11.0	0.758	5	55	11.0	0.189	0.38	0.19
White-crowned Sparrow	2	10	5.0	0.667													2	10	5.0	0.167	0.33	0.17
Mallard	6	220	36.7	0.273	4	50	12.5	0.533									10	270	27.0	0.154	0.26	0.13
Brewer's Blackbird	8	420	52.5	0.254					2	10	5.0	0.667	2	10	5.0	0.667	12	440	36.7	0.136	0.33	0.16
Grasshopper Sparrow	1	25	25.0	0.067	2	50	25.0	0.133	2	40	20.0	0.167	3	85	28.3	0.176	8	200	25.0	0.133	0.05	0.02
Black-billed Magpie	1	100	100.0	0.017	1	5	5.0	0.333	1	5	5.0	0.333	3	15	5.0	1.000	6	125	20.8	0.120	0.41	0.21
Eastern Phoebe									1	5	5.0	0.333					1	5	5.0	0.083	0.17	0.08
Northern Flicker					1	5	5.0	0.333									1	5	5.0	0.083	0.17	0.08
Rufous-sided Towhee	1	5	5.0	0.333													1	5	5.0	0.083	0.17	0.08
Western Wood-Pewee					2	20	10.0	0.333									2	20	10.0	0.083	0.17	0.08
Yellow-rumped Warbler									1	5	5.0	0.333					1	5	5.0	0.083	0.17	0.08
Black-crowned Night-heron													2	50	25.0	0.133	2	50	25.0	0.033	0.07	0.03
Common Yellowthroat					1	15	15.0	0.111									1	15	15.0	0.028	0.06	0.03
Barn Swallow	2	200	100.0	0.033	2	200	100.0	0.033					1	100	100.0	0.017	5	500	100.0	0.021	0.02	0.01
Killdeer	1	25	25.0	0.067													1	25	25.0	0.017	0.03	0.02
	139	2865	20.6	11.240	187	4550	24.3	12.809	187	5810	31.1	10.031	198	3065	15.5	21.318	711	16290	22.9	12.930	55.40	27.70

Riparian Shrubland

Breeding Season 1991

Habitat = Riparian shrubland - *Amorpha*

Species Richness = 16

Species	Week 1				Week 2				Week 3				Total				s	SE
	n	Sum d	Mean d	D	n	Sum d	Mean d	D	n	Sum d	Mean d	D	n	Sum d	Mean d	D		
Swainson's Hawk	2	10	5.0	2.000	2	10	5.0	2.000	1	5	5.0	1.000	5	25	5.0	1.667	0.58	0.33
American Goldfinch	3	15	5.0	3.000	1	5	5.0	1.000					4	20	5.0	1.333	1.53	0.88
Western Meadowlark	10	634	63.4	0.789	20	1181	59.1	1.693	10	225	22.5	2.222	40	2040	51.0	1.307	0.72	0.42
Vesper Sparrow	2	30	15.0	0.667	7	205	29.3	1.195	7	135	19.3	1.814	16	370	23.1	1.153	0.57	0.33
Brown-headed Cowbird					1	5	5.0	1.000	2	10	5.0	2.000	3	15	5.0	1.000	1.00	0.58
European Starling	5	25	5.0	5.000	4	102	25.5	0.784	2	200	100.0	0.100	11	327	29.7	0.617	2.65	1.53
Northern Oriole	1	25	25.0	0.200	2	10	5.0	2.000	1	15	15.0	0.333	4	50	12.5	0.533	1.00	0.58
Mourning Dove	2	20	10.0	1.000	8	440	55.0	0.727	2	20	10.0	1.000	12	480	40.0	0.500	0.16	0.09
Song Sparrow	1	5	5.0	1.000	2	30	15.0	0.667					3	35	11.7	0.428	0.51	0.29
Savannah Sparrow					1	5	5.0	1.000					1	5	5.0	0.333	0.58	0.33
American Robin	1	5	5.0	1.000									1	5	5.0	0.333	0.58	0.33
House Finch					11	625	56.8	0.968					11	625	56.8	0.323	0.56	0.32
Brewer's Blackbird	2	10	5.0	2.000	3	261	87.0	0.172					5	271	54.2	0.154	1.11	0.64
Mallard	3	110	36.7	0.409									3	110	36.7	0.136	0.24	0.14
Blue Grosbeak					2	60	30.0	0.333					2	60	30.0	0.111	0.19	0.11
American Kestrel	1	100	100.0	0.050	1	100	100.0	0.050					2	200	100.0	0.033	0.03	0.02
Totals	33	989	30.0	5.506	65	3039	46.8	6.951	25	610	24.4	5.123	123	4638	37.7	5.437	0.96	0.56

Riparian Shrubland

Breeding Season 1993

Habitat = Riparian shrubland - *Amorpha*

Species Richness = 19

Species	Week 1				Week 2				Week 3				Total				s	SE
	n	Sum	Mean	D	n	Sum	Mean	D	n	Sum	Mean	D	n	Sum	Mean	D		
Vesper Sparrow	10	145	14.5	3.448	1	5	5.0	1.000	5	85	17.0	1.471	16	235	14.7	1.361	1.30	0.75
Northern Oriole	7	35	5.0	7.000	3	15	5.0	3.000	2	105	52.5	0.190	12	155	12.9	1.161	3.42	1.98
Red-winged Blackbird	8	325	40.6	0.984	8	40	5.0	8.000	4	77	19.3	1.039	20	442	22.1	1.131	4.03	2.33
American Goldfinch					2	10	5.0	2.000	2	10	5.0	2.000	4	20	5.0	1.000	1.15	0.67
Western Meadowlark	11	757	68.8	0.799	9	279	31.0	1.452	12	616	51.3	1.169	32	1652	51.6	0.775	0.33	0.19
Brewer's Blackbird	7	225	32.1	1.089	19	950	50.0	1.900	1	5	5.0	1.000	27	1180	43.7	0.772	0.50	0.29
Blue-winged Teal					2	10	5.0	2.000					2	10	5.0	0.500	1.15	0.67
Great Horned Owl	1	5	5.0	1.000					1	5	5.0	1.000	2	10	5.0	0.500	0.58	0.33
Blue Grosbeak					2	10	5.0	2.000					2	10	5.0	0.500	1.15	0.67
Mourning Dove	4	210	52.5	0.381	3	15	5.0	3.000	2	10	5.0	2.000	9	235	26.1	0.431	1.32	0.76
Grasshopper Sparrow	1	15	15.0	0.333	5	125	25.0	1.000					6	140	23.3	0.321	0.51	0.29
House Finch					1	5	5.0	1.000					1	5	5.0	0.250	0.58	0.33
American Kestrel					1	5	5.0	1.000					1	5	5.0	0.250	0.58	0.33
Song Sparrow									1	5	5.0	1.000	1	5	5.0	0.250	0.58	0.33
Common Grackle									1	5	5.0	1.000	1	5	5.0	0.250	0.58	0.33
Eastern Kingbird									1	5	5.0	1.000	1	5	5.0	0.250	0.58	0.33
Warbling Vireo	1	5	5.0	1.000									1	5	5.0	0.250	0.58	0.33
Horned Lark					1	62	62.0	0.081					1	62	62.0	0.020	0.05	0.03
Common Nighthawk	1	100	100.0	0.050									1	100	100.0	0.013	0.03	0.02
	51	1822	35.7	7.138	57	1531	26.9	10.611	32	928	29.0	5.517	140	4281	30.6	7.631	2.60	1.50

Riparian Shrubland

Breeding Season 1994

Habitat = Riparian shrubland - *Amorpha*

Species Richness = 16

Species	Week 1				Week 2				Week 3				Week 4				Total				s	SE
	n	Sum d	Mean d	D	n	Sum d	Mean d	D	n	Sum d	Mean d	D	n	Sum d	Mean d	D	n	Sum d	Mean d	D		
Vesper Sparrow	3	25	8.3	1.801	2	160	80.0	0.125	3	25	8.3	1.801	15	185	12.3	6.083	23	395	17.17	1.67	2.55	1.27
Mourning Dove	4	20	5.0	4.000	5	85	17.0	1.471	4	115	28.8	0.696	5	45	9.0	2.778	18	265	14.72	1.53	1.46	0.73
Northern Oriole	2	10	5.0	2.000	3	25	8.3	1.801	4	20	5.0	4.000	9	170	18.9	2.382	18	225	12.50	1.80	1.00	0.50
Red-winged Blackbird	4	20	5.0	4.000	10	100	10.0	5.000	2	10	5.0	2.000	8	290	36.3	1.103	24	420	17.50	1.71	1.79	0.89
Eastern Kingbird	3	35	11.7	1.285	1	15	15.0	0.333	1	5	5.0	1.000	1	5	5.0	1.000	6	60	10.00	0.75	0.40	0.20
House Finch	1	5	5.0	1.000					1	5	5.0	1.000	10	565	56.5	0.885	12	575	47.92	0.31	0.48	0.24
American Goldfinch	4	210	52.5	0.381	1	5	5.0	1.000	2	105	52.5	0.190	4	135	33.8	0.593	11	455	41.36	0.33	0.35	0.17
Western Meadowlark	5	105	21.0	1.190	6	110	18.3	1.637	8	190	23.8	1.684	2	60	30.0	0.333	21	465	22.14	1.19	0.63	0.31
Grasshopper Sparrow	1	25	25.0	0.200	3	155	51.7	0.290	3	75	25.0	0.600	1	25	25.0	0.200	8	280	35.00	0.29	0.19	0.09
European Starling	2	10	5.0	2.000	7	275	39.3	0.891	2	10	5.0	2.000	2	200	100.0	0.100	13	495	38.08	0.43	0.93	0.46
Great Horned Owl	1	5	5.0	1.000													1	5	5.00	0.25	0.50	0.25
Brewer's Blackbird	2	10	5.0	2.000													2	10	5.00	0.50	1.00	0.50
Blue Grosbeak	1	25	25.0	0.200	2	100	50.0	0.200									3	125	41.67	0.09	0.12	0.06
Song Sparrow	1	5	5.0	1.000					3	65	21.7	0.692					4	70	17.50	0.29	0.50	0.25
Brown-headed Cowbird					5	245	49.0	0.510									5	245	49.00	0.13	0.26	0.13
American Robin					1	5	5.0	1.000	1	5	5.0	1.000					2	10	5.00	0.50	0.58	0.29
	34	510	15.0	11.333	46	1280	27.8	8.266	34	630	18.5	9.175	57	1680	29.5	9.670	171	4100	23.98	8.91	1.29	0.64

Riparian Shrubland

Breeding Season 1995

Habitat = Riparian shrubland - *Amorpha*

Species Richness = 18

Species	Week 1				Week 2				Week 3				Week 4				Total				s	SE
	n	Sum d	Mean d	D	n	Sum d	Mean d	D	n	Sum d	Mean d	D	n	Sum d	Mean d	D	n	Sum d	Mean d	D		
Brewer's Blackbird	2	10	5.0	2.000	3	25	8.3	1.801	12	60	5.0	12.000	5	75	15.0	1.667	22	170	7.73	3.56	5.09	2.55
Northern Oriole	3	15	5.0	3.000	2	10	5.0	2.000	3	15	5.0	3.000	5	75	15.0	1.667	13	115	8.85	1.84	0.69	0.34
Western Meadowlark	3	55	18.3	0.818	8	140	17.5	2.286	9	195	21.7	2.077	7	165	23.6	1.485	27	555	20.56	1.64	0.66	0.33
Great Horned Owl					1	5	5.0	1.000					1	5	5.0	1.000	2	10	5.00	0.50	0.58	0.29
Vesper Sparrow	1	15	15.0	0.333	6	80	13.3	2.251	2	30	15.0	0.667	1	5	5.0	1.000	10	130	13.00	0.96	0.84	0.42
Mourning Dove	3	15	5.0	3.000	7	75	10.7	3.268	1	5	5.0	1.000	2	70	35.0	0.286	13	165	12.69	1.28	1.47	0.74
Grasshopper Sparrow	1	25	25.0	0.200					1	15	15.0	0.333	1	35	35.0	0.143	3	75	25.00	0.15	0.14	0.07
Red-winged Blackbird	7	75	10.7	3.268	1	100	100.0	0.050	3	15	5.0	3.000					11	190	17.27	0.80	1.80	0.90
Mallard	3	205	68.3	0.220													3	205	68.33	0.06	0.11	0.06
House Finch					3	300	100.0	0.150	1	5	5.0	1.000					4	305	76.25	0.07	0.48	0.24
American Goldfinch	5	25	5.0	5.000	1	5	5.0	1.000	6	600	100.0	0.300					12	630	52.50	0.29	2.32	1.16
Yellow Warbler	1	5	5.0	1.000					1	5	5.0	1.000					2	10	5.00	0.50	0.58	0.29
Blue Grosbeak	2	10	5.0	2.000													2	10	5.00	0.50	1.00	0.50
Cliff Swallow	1	100	100.0	0.050													1	100	100.00	0.01	0.03	0.01
Song Sparrow	1	5	5.0	1.000													1	5	5.00	0.25	0.50	0.25
Eastern Phoebe	1	5	5.0	1.000													1	5	5.00	0.25	0.50	0.25
European Starling	4	115	28.8	0.696					4	20	5.0	4.000					8	135	16.88	0.59	1.91	0.96
American Robin									1	5	5.0	1.000					1	5	5.00	0.25	0.50	0.25
	38	680	17.9	10.618	32	740	23.1	6.919	44	970	22.0	9.979	22	430	19.5	5.628	136	2820	20.74	8.20	2.40	1.20

Riparian Shrubland

Breeding Season 1996

Habitat = Riparian shrubland - *Amorpha*

Species Richness = 13

Species	Week 1				Week 2				Week 3				Week 4				Total				s	SE
	n	Sum d	Mean d	D	n	Sum d	Mean d	D	n	Sum d	Mean d	D	n	Sum d	Mean d	D	n	Sum d	Mean d	D		
Northern Oriole	1	5	5.0	1.000	2	10	5.0	2.000	1	5	5.0	1.000	4	20	5.0	4.000	8	40	5.0	2.000	1.41	0.71
Western Meadowlark	3	45	15.0	1.000	7	135	19.3	1.814	8	120	15.0	2.667	4	60	15.0	1.333	22	360	16.4	1.681	0.72	0.36
Vesper Sparrow					3	15	5.0	3.000	2	115	57.5	0.174	11	125	11.4	4.842	16	255	15.9	1.255	2.35	1.17
Mourning Dove	1	5	5.0	1.000					2	105	52.5	0.190	6	50	8.3	3.601	9	160	17.8	0.633	1.66	0.83
Song Sparrow	1	5	5.0	1.000	1	5	5.0	1.000									2	10	5.0	0.500	0.58	0.29
Common Yellowthroat									1	5	5.0	1.000					1	5	5.0	0.250	0.50	0.25
Great Horned Owl									1	5	5.0	1.000					1	5	5.0	0.250	0.50	0.25
House Finch									1	5	5.0	1.000					1	5	5.0	0.250	0.50	0.25
European Starling	3	300	100.0	0.150					4	20	5.0	4.000					7	320	45.7	0.191	1.98	0.99
American Goldfinch					1	5	5.0	1.000	1	100	100.0	0.050	2	10	5.0	2.000	4	115	28.8	0.174	0.94	0.47
Red-winged Blackbird	1	100	100.0	0.050	3	35	11.7	1.285	1	100	100.0	0.050					5	235	47.0	0.133	0.63	0.31
Blue Grosbeak													1	35	35.0	-0.143	1	35	35.0	0.036	0.07	0.04
Grasshopper Sparrow	1	62	62.0	0.081													1	62	62.0	0.020	0.04	0.02
	11	522	47.5	1.159	17	205	12.1	7.049	22	580	26.4	4.172	28	300	10.7	13.067	78	1607	20.6	4.732	25.45	12.72

Upland Shrub

Breeding Season 1991

Habitat = Upland Shrub

Species Richness = 19

Species	Week 1				Week 2				Week 3				Total				s	SE
	n	Sum d	Mean d	D	n	Sum d	Mean d	D	n	Sum d	Mean d	D	n	Sum d	Mean d	D		
Song Sparrow	1	15	15.0	0.167	3	35	11.7	0.643	10	60	6.0	4.167	14	110	7.9	1.484	2.18	1.26
Rufous-sided Towhee	4	50	12.5	0.800	6	40	6.7	2.249	7	75	10.7	1.634	17	165	9.7	1.459	0.73	0.42
Red-winged Blackbird	16	848	53.0	0.755	11	327	29.7	0.925	21	805	38.3	1.370	48	1980	41.3	0.970	0.32	0.18
Western Meadowlark	7	509	72.7	0.241	8	490	61.3	0.327	11	682	62.0	0.444	26	1681	64.7	0.335	0.10	0.06
Yellow-breasted Chat	2	10	5.0	1.000	2	50	25.0	0.200	1	5	5.0	0.500	5	65	13.0	0.321	0.40	0.23
Northern Oriole	1	15	15.0	0.167					2	10	5.0	1.000	3	25	8.3	0.300	0.54	0.31
Brown-headed Cowbird	1	5	5.0	0.500	1	35	35.0	0.071	2	10	5.0	1.000	4	50	12.5	0.267	0.46	0.27
Black-billed Magpie	4	244	61.0	0.164	7	344	49.1	0.356	6	502	83.7	0.179	17	1090	64.1	0.221	0.11	0.06
American Goldfinch					1	5	5.0	0.500	2	30	15.0	0.333	3	35	11.7	0.214	0.25	0.15
Great Horned Owl	1	15	15.0	0.167					2	30	15.0	0.333	3	45	15.0	0.167	0.17	0.10
Swainson's Thrush	1	15	15.0	0.167	1	5	5.0	0.500					2	20	10.0	0.167	0.25	0.15
Gray Catbird									1	5	5.0	0.500	1	5	5.0	0.167	0.29	0.17
Vesper Sparrow	1	62	62.0	0.040	2	50	25.0	0.200	3	129	43.0	0.174	6	241	40.2	0.124	0.09	0.05
Mourning Dove	1	100	100.0	0.025	4	400	100.0	0.100	3	199	66.3	0.113	8	699	87.4	0.076	0.05	0.03
Barn Swallow	3	300	100.0	0.075					1	100	100.0	0.025	4	400	100.0	0.033	0.04	0.02
Lazuli Bunting									1	25	25.0	0.100	1	25	25.0	0.033	0.06	0.03
Green-tailed Towhee	2	174	87.0	0.057									2	174	87.0	0.019	0.03	0.02
Say's Phoebe									1	45	45.0	0.056	1	45	45.0	0.019	0.03	0.02
Brewer's Blackbird	1	87	87.0	0.029									1	87	87.0	0.010	0.02	0.01
Totals	46	2449	53.2	2.160	46	1781	38.7	2.970	74	2712	36.6	5.048	166	6942	41.8	3.308	1.49	0.86

Upland Shrub

Breeding Season 1993

Habitat = Upland Shrub

Species Richness = 26

Species	Week 1				Week 2				Week 3				Total				s	SE
	n	Sum d	Mean d	D	n	Sum d	Mean d	D	n	Sum d	Mean d	D	n	Sum d	Mean d	D		
Red-winged Blackbird	60	1372	22.9	6.559	26	869	33.4	1.945	17	540	31.8	1.338	103	2781	27.0	2.384	2.86	1.65
Rufous-sided Towhee	13	215	16.5	1.965	5	25	5.0	2.500	7	85	12.1	1.442	25	325	13.0	1.202	0.53	0.31
Western Meadowlark	18	512	28.4	1.582	9	314	34.9	0.645	11	489	44.5	0.619	38	1315	34.6	0.686	0.55	0.32
American Goldfinch	12	769	64.1	0.468	7	225	32.1	0.544	33	2532	76.7	1.075	52	3526	67.8	0.479	0.33	0.19
Song Sparrow	6	157	26.2	0.573	2	40	20.0	0.250	10	285	28.5	0.877	18	482	26.8	0.420	0.31	0.18
Great Horned Owl	1	5	5.0	0.500	2	10	5.0	1.000					3	15	5.0	0.375	0.50	0.29
Green-tailed Towhee	1	5	5.0	0.500					17	600	35.3	1.204	18	605	33.6	0.335	0.60	0.35
Common Yellowthroat	6	157	26.2	0.573					6	200	33.3	0.450	12	357	29.8	0.252	0.30	0.17
Northern Oriole	4	60	15.0	0.667	1	5	5.0	0.500	1	25	25.0	0.100	6	90	15.0	0.250	0.29	0.17
Loggerhead Shrike	2	10	5.0	1.000									2	10	5.0	0.250	0.58	0.33
Brewer's Blackbird	1	5	5.0	0.500					9	275	30.6	0.736	10	280	28.0	0.223	0.38	0.22
Black-billed Magpie	7	190	27.1	0.645	4	184	46.0	0.217	4	270	67.5	0.148	15	644	42.9	0.218	0.27	0.16
Lesser Goldfinch									3	35	11.7	0.643	3	35	11.7	0.161	0.37	0.21
Yellow-breasted Chat					1	5	5.0	0.500					1	5	5.0	0.125	0.29	0.17
Solitary Vireo					1	5	5.0	0.500					1	5	5.0	0.125	0.29	0.17
House Finch									16	1355	84.7	0.472	16	1355	84.7	0.118	0.27	0.16
Vesper Sparrow	1	45	45.0	0.056	4	100	25.0	0.400	1	45	45.0	0.056	6	190	31.7	0.118	0.20	0.11
Barn Swallow	6	464	77.3	0.194	3	300	100.0	0.075	4	400	100.0	0.100	13	1164	89.5	0.091	0.06	0.04
Grasshopper Sparrow	1	25	25.0	0.100					1	15	15.0	0.167	2	40	20.0	0.063	0.08	0.05
Brown-headed Cowbird					1	5	5.0	0.500	3	212	70.7	0.106	4	217	54.3	0.046	0.26	0.15
European Starling	1	15	15.0	0.167									1	15	15.0	0.042	0.10	0.06
American Robin	1	5	5.0	0.500					1	62	62.0	0.040	2	67	33.5	0.037	0.28	0.16
Common Nighthawk	3	287	95.7	0.078	1	100	100.0	0.025					4	387	96.8	0.026	0.04	0.02
Common Snipe									2	97	48.5	0.103	2	97	48.5	0.026	0.06	0.03
Yellow Warbler	1	25	25.0	0.100									1	25	25.0	0.025	0.06	0.03
Eastern Phoebe									1	25	25.0	0.100	1	25	25.0	0.025	0.06	0.03
	145	4323	29.8	12.159	67	2187	32.6	5.131	147	7547	51.3	7.158	359	14057	39.2	7.640	3.62	2.09

Upland Shrub

Breeding Season 1994

Habitat = Upland Shrub

Species Richness = 33

Species	Week 1				Week 2				Week 3				Week 4				Total				s	SE
	n	Sum d	Mean d	D	n	Sum d	Mean d	D	n	Sum d	Mean d	D	n	Sum d	Mean d	D	n	Sum d	Mean d	D		
Song Sparrow	16	430	26.9	1.488	24	400	16.7	3.599	19	355	18.7	2.543	28	650	23.2	3.016	87	1835	21.09	2.58	0.89	0.45
Rufous-sided Towhee	17	275	16.2	2.627	18	350	19.4	2.315	15	325	21.7	1.731	19	325	17.1	2.776	69	1275	18.48	2.33	0.46	0.23
American Goldfinch	11	410	37.3	0.738	15	1095	73.0	0.514	11	300	27.3	1.008	30	1070	35.7	2.103	67	2875	42.91	0.976	0.70	0.35
Black-billed Magpie	10	385	38.5	0.649	6	165	27.5	0.545	11	240	21.8	1.260	13	245	18.9	1.724	40	1035	25.88	0.97	0.55	0.28
Green-tailed Towhee					6	130	21.7	0.692	1	5	5.0	0.500	3	15	5.0	1.500	10	150	15.00	0.42	0.62	0.31
Red-winged Blackbird	26	315	12.1	5.363	24	1260	52.5	1.143	17	345	20.3	2.095	19	785	41.3	1.150	86	2705	31.45	1.709	2.00	1.00
Lesser Goldfinch													2	10	5.0	1.000	2	10	5.00	0.250	0.50	0.25
Brown-headed Cowbird	6	220	36.7	0.409	9	400	44.4	0.506	4	70	17.5	0.571	8	245	30.6	0.653	27	935	34.63	0.49	0.10	0.05
Western Meadowlark	9	470	52.2	0.431	10	500	50.0	0.500	10	475	47.5	0.526	7	225	32.1	0.544	36	1670	46.39	0.49	0.05	0.02
Vesper Sparrow	1	5	5.0	0.500	1	25	25.0	0.100	1	5	5.0	0.500	5	115	23.0	0.543	8	150	18.75	0.27	0.21	0.10
Northern Flicker	2	120	60.0	0.083	1	75	75.0	0.033	2	105	52.5	0.095	1	5	5.0	0.500	6	305	50.83	0.074	0.22	0.11
Northern Oriole	5	105	21.0	0.595	2	70	35.0	0.143					1	5	5.0	0.500	8	180	22.50	0.22	0.28	0.14
Yellow-breasted Chat													1	5	5.0	0.500	1	5	5.00	0.13	0.25	0.13
Common Snipe					1	35	35.0	0.071	1	55	55.0	0.045	3	55	18.3	0.409	5	145	29.00	0.108	0.19	0.09
Common Yellowthroat	3	55	18.3	0.409	5	285	57.0	0.219	4	100	25.0	0.400	5	165	33.0	0.379	17	605	35.59	0.299	0.09	0.04
House Finch	2	200	100.0	0.050	6	205	34.2	0.439					4	140	35.0	0.286	12	545	45.42	0.165	0.21	0.10
Dark-eyed Junco					1	15	15.0	0.167					1	15	15.0	0.167	2	30	15.00	0.08	0.10	0.05
Mourning Dove	3	160	53.3	0.141	1	85	85.0	0.029	1	75	75.0	0.033	5	390	78.0	0.160	10	710	71.00	0.09	0.07	0.03
American Kestrel													4	380	95.0	0.105	4	380	95.00	0.026	0.05	0.03
Cliff Swallow					2	200	100.0	0.050	1	100	100.0	0.025	4	400	100.0	0.100	7	700	100.00	0.04	0.04	0.02
American Robin					1	45	45.0	0.056					1	25	25.0	0.100	2	70	35.00	0.04	0.05	0.02
Barn Swallow					2	200	100.0	0.050	4	400	100.0	0.100	3	300	100.0	0.075	9	900	100.00	0.06	0.04	0.02
Grasshopper Sparrow					1	5	5.0	0.500									1	5	5.00	0.125	0.25	0.13
Golden Eagle	1	100	100.0	0.025													1	100	100.00	0.006	0.01	0.01
Red-tailed Hawk					1	100	100.0	0.025									1	100	100.00	0.006	0.01	0.01
Yellow Warbler					1	65	65.0	0.038									1	65	65.00	0.010	0.02	0.01
Brewer's Blackbird					1	15	15.0	0.167									1	15	15.00	0.042	0.08	0.04
Blue Grosbeak	2	40	20.0	0.250													2	40	20.00	0.06	0.13	0.06
Black-capped Chickadee	3	45	15.0	0.500													3	45	15.00	0.13	0.25	0.13
Blue-gray Gnatcatcher					2	10	5.0	1.000									2	10	5.00	0.25	0.50	0.25
Chipping Sparrow					1	5	5.0	0.500									1	5	5.00	0.13	0.25	0.13
Tree Swallow					1	100	100.0	0.025									1	100	100.00	0.01	0.01	0.01
Western Kingbird	2	10	5.0	1.000					1	55	55.0	0.045					3	65	21.67	0.09	0.49	0.25
	119	3345	28.1	10.584	143	5840	40.8	8.754	103	3010	29.2	8.811	167	5570	33.4	12.518	532	17765	33.39	9.96	1.78	0.89

Upland Shrub

Breeding Season 1995

Habitat = Upland Shrub

Species Richness = 36

Species Richness = 36

	Week 1				Week 2				Week 3				Week 4				Total					
Species	n	Sum d	Mean d	D	n	Sum d	Mean d	D	n	Sum d	Mean d	D	n	Sum d	Mean d	D	n	Sum d	Mean d	D	s	SE
Rufous-sided Towhee	4	30	7.5	1.333	23	272	11.8	4.861	7	145	20.7	0.845	32	545	17.0	4.698	66	992	15.03	2.75	2.14	1.07
Song Sparrow	11	195	17.7	1.551	19	225	11.8	4.012	9	210	23.3	0.964	18	250	13.9	3.240	57	880	15.44	2.31	1.42	0.71
Black-billed Magpie	4	100	25.0	0.400	8	155	19.4	1.032	11	329	29.9	0.919	7	65	9.3	1.884	30	649	21.63	0.87	0.62	0.31
Red-winged Blackbird	11	457	41.6	0.662	15	427	28.5	1.317	10	130	13.0	1.923	22	1000	45.5	1.210	58	2014	34.72	1.04	0.52	0.26
Black-capped Chickadee	2	30	15.0	0.333	7	115	16.4	1.065	1	25	25.0	0.100	6	80	13.3	1.125	16	250	15.63	0.64	0.52	0.26
Common Yellowthroat	6	50	8.3	1.801	5	95	19.0	0.658	5	55	11.0	1.136	4	40	10.0	1.000	20	240	12.00	1.04	0.48	0.24
American Goldfinch	2	10	5.0	1.000	26	885	34.0	1.910	1	15	15.0	0.167	19	1125	59.2	0.802	48	2035	42.40	0.71	0.72	0.36
Brown-headed Cowbird					3	65	21.7	0.346	5	105	21.0	0.595	8	205	25.6	0.780	16	375	23.44	0.43	0.34	0.17
Western Meadowlark	4	199	49.8	0.201	6	180	30.0	0.500	2	67	33.5	0.149	9	402	44.7	0.504	21	848	40.38	0.33	0.19	0.09
Yellow-breasted Chat									2	40	20.0	0.250	2	20	10.0	0.500	4	60	15.00	0.17	0.24	0.12
Vesper Sparrow					1	5	5.0	0.500					2	40	20.0	0.250	3	45	15.00	0.13	0.24	0.12
White-crowned Sparrow					2	30	15.0	0.333					2	50	25.0	0.200	4	80	20.00	0.13	0.16	0.08
Northern Oriole	1	15	15.0	0.167									1	15	15.0	0.167	2	30	15.00	0.08	0.10	0.05
Dark-eyed Junco													1	15	15.0	0.167	1	15	15.00	0.04	0.08	0.04
Mourning Dove	1	5	5.0	0.500	7	245	35.0	0.500	2	10	5.0	1.000	1	15	15.0	0.167	11	275	25.00	0.28	0.34	0.17
Grasshopper Sparrow													1	25	25.0	0.100	1	25	25.00	0.03	0.05	0.03
House Finch					1	100	100.0	0.025	1	5	5.0	0.500	1	25	25.0	0.100	3	130	43.33	0.04	0.23	0.12
Chestnut-sided Warbler													1	25	25.0	0.100	1	25	25.00	0.03	0.05	0.03
Barn Swallow					6	600	100.0	0.150	3	300	100.0	0.075	4	400	100.0	0.100	13	1300	100.00	0.08	0.06	0.03
Downy Woodpecker													1	25	25.0	0.100	1	25	25.00	0.03	0.05	0.03
Common Nighthawk													1	100	100.0	0.025	1	100	100.00	0.01	0.01	0.01
Brewer's Blackbird	5	500	100.0	0.125	6	70	11.7	1.285	1	5	5.0	0.500	1	100	100.0	0.025	13	675	51.92	0.16	0.57	0.29
Cliff Swallow					3	300	100.0	0.075					1	100	100.0	0.025	4	400	100.00	0.03	0.04	0.02
Tree Swallow													1	100	100.0	0.025	1	100	100.00	0.01	0.01	0.01
Red-tailed Hawk					2	200	100.0	0.050									2	200	100.00	0.01	0.03	0.01
Northern Flicker					2	20	10.0	0.500	1	25	25.0	0.100					3	45	15.00	0.13	0.24	0.12
Yellow Warbler					1	25	25.0	0.100									1	25	25.00	0.03	0.05	0.03
Common Snipe					3	160	53.3	0.141	1	62	62.0	0.040					4	222	55.50	0.05	0.07	0.03
Blue Grosbeak					1	35	35.0	0.071									1	35	35.00	0.02	0.04	0.02
Sage Thrasher					1	5	5.0	0.500									1	5	5.00	0.13	0.25	0.13
Green-tailed Towhee					1	5	5.0	0.500									1	5	5.00	0.13	0.25	0.13
Broad-tailed Hummingbird					1	100	100.0	0.025									1	100	100.00	0.01	0.01	0.01
American Robin					2	30	15.0	0.333									2	30	15.00	0.08	0.17	0.08
Western Kingbird									1	25	25.0	0.100					1	25	25.00	0.03	0.05	0.03
Wilson's Warbler	2	10	5.0	1.000					1	5	5.0	0.500					3	15	5.00	0.38	0.48	0.24
	53	1601	30.2	4.386	152	4349	28.6	13.281	64	1558	24.3	6.573	146	4767	32.7	11.179	415	12275	29.58	8.77	4.09	2.04

Upland Shrub

Breeding Season 1996

Habitat = Upland Shrub

Species Richness = 28

Species	Week 1				Week 2				Week 3				Week 4				Total				s	SE
	n	Sum d	Mean d	D	n	Sum d	Mean d	D	n	Sum d	Mean d	D	n	Sum d	Mean d	D	n	Sum d	Mean d	D		
Rufous-sided Towhee	28	360	12.9	5.443	19	285	15.0	3.167	13	232	17.9	1.821	25	355	14.2	4.401	85	1232	14.6	3.666	1.56	0.78
Song Sparrow	10	140	14.0	1.786	15	155	10.3	3.630	9	135	15.0	1.500	13	205	15.8	2.061	47	635	13.5	2.174	0.95	0.48
Red-winged Blackbird	14	300	21.4	1.633	14	210	15.0	2.333	7	125	17.9	0.980	14	455	32.5	1.077	49	1090	22.2	1.377	0.62	0.31
American Goldfinch	13	515	39.6	0.820	15	650	43.3	0.865	5	85	17.0	0.735	19	750	39.5	1.203	52	2000	38.5	0.845	0.21	0.10
Western Meadowlark	8	160	20.0	1.000	11	265	24.1	1.142	2	60	30.0	0.167	5	145	29.0	0.431	26	630	24.2	0.671	0.46	0.23
Vesper Sparrow	5	75	15.0	0.833	2	40	20.0	0.250	2	40	20.0	0.250	4	80	20.0	0.500	13	235	18.1	0.449	0.28	0.14
Yellow-breasted Chat	2	40	20.0	0.250	4	80	20.0	0.500	1	15	15.0	0.167	4	60	15.0	0.667	11	195	17.7	0.388	0.23	0.11
Green-tailed Towhee	7	85	12.1	1.442					4	130	32.5	0.308					11	215	19.6	0.352	0.69	0.34
Black-billed Magpie	5	115	23.0	0.543	4	102	25.5	0.392	3	35	11.7	0.643	4	220	55.0	0.182	16	472	29.5	0.339	0.20	0.10
Brown-headed Cowbird	8	430	53.8	0.372	10	604	60.4	0.414	5	265	53.0	0.236	8	555	69.4	0.288	31	1854	59.8	0.324	0.08	0.04
Cliff Swallow									42	4200	100.0	1.050					42	4200	100.0	0.263	0.53	0.26
White-crowned Sparrow	1	5	5.0	0.500	2	30	15.0	0.333									3	35	11.7	0.161	0.25	0.12
Common Yellowthroat	1	25	25.0	0.100					3	92	30.7	0.245	3	85	28.3	0.265	7	202	28.9	0.152	0.13	0.06
Common Snipe	1	15	15.0	0.167	2	40	20.0	0.250	2	60	30.0	0.167					5	115	23.0	0.136	0.10	0.05
Mourning Dove	5	425	85.0	0.147					1	5	5.0	0.500	5	140	28.0	0.446	11	570	51.8	0.133	0.24	0.12
Barn Swallow	2	200	100.0	0.050	1	100	100.0	0.025	18	1800	100.0	0.450					21	2100	100.0	0.131	0.21	0.11
Blue Grosbeak	1	5	5.0	0.500													1	5	5.0	0.125	0.25	0.13
Brown Thrasher	1	5	5.0	0.500													1	5	5.0	0.125	0.25	0.13
Great Horned Owl	1	5	5.0	0.500													1	5	5.0	0.125	0.25	0.13
Grasshopper Sparrow									1	35	35.0	0.071	3	55	18.3	0.409	4	90	22.5	0.111	0.20	0.10
Northern Oriole					2	20	10.0	0.500					1	35	35.0	0.071	3	55	18.3	0.102	0.24	0.12
Black-capped Chickadee													2	30	15.0	0.333	2	30	15.0	0.083	0.17	0.08
Yellow Warbler	1	25	25.0	0.100	2	80	40.0	0.125					1	45	45.0	0.056	4	150	37.5	0.067	0.05	0.03
Brewer's Blackbird													3	105	35.0	0.214	3	105	35.0	0.054	0.11	0.05
House Finch	1	5	5.0	0.500	2	200	100.0	0.050					2	200	100.0	0.050	5	405	81.0	0.039	0.23	0.12
House Wren	1	25	25.0	0.100													1	25	25.0	0.025	0.05	0.03
American Robin					1	35	35.0	0.071									1	35	35.0	0.018	0.04	0.02
Say's Phoebe	1	45	45.0	0.056													1	45	45.0	0.014	0.03	0.01
	117	3005	25.7	11.389	106	2896	27.3	9.700	118	7314	62.0	4.759	116	3520	30.3	9.557	457	16735	36.6	7.800	35.40	17.70

Mesic Grass

Breeding Season 1991

Habitat = Mesic Mixed Grassland

Species Richness = 14

Species	Week 1				Week 2				Week 3				Total				s	SE
	n	Sum d	Mean d	D	n	Sum d	Mean d	D	n	Sum d	Mean d	D	n	Sum d	Mean d	D		
Vesper Sparrow	15	569	37.93	0.989	14	409	29.21	1.20	16	240	15.00	2.67	45	1218	27.07	1.39	0.91	0.53
House Finch					91	6899	75.81	3.00	28	1834	65.50	1.07	119	8733	73.39	1.35	1.52	0.88
Western Meadowlark	11	480	43.64	0.63	15	1029	68.60	0.55	22	1092	49.64	1.11	48	2601	54.19	0.74	0.30	0.17
Red-winged Blackbird	2	102	51.00	0.10	2	122	61.00	0.08	3	262	87.33	0.09	7	486	69.43	0.08	0.01	0.00
Western Kingbird					2	10	5.00	1.00	1	100	100.00	0.03	3	110	36.67	0.07	0.57	0.33
American Goldfinch					2	105	52.50	0.10	1	100	100.00	0.03	3	205	68.33	0.04	0.05	0.03
Mourning Dove	1	100	100.00	0.03	2	187	93.50	0.05					3	287	95.67	0.03	0.03	0.02
Killdeer					1	87	87.00	0.03	1	87	87.00	0.03	2	174	87.00	0.02	0.02	0.01
Blue Grosbeak					1	45	45.00	0.06					1	45	45.00	0.02	0.03	0.02
Barn Swallow	2	200	100.00	0.05									2	200	100.00	0.02	0.03	0.02
Red-tailed Hawk					1	62	62.00	0.04					1	62	62.00	0.01	0.02	0.01
Ferruginous Hawk	1	62	62.00	0.04									1	62	62.00	0.01	0.02	0.01
Say's Phoebe					1	62	62.00	0.04					1	62	62.00	0.01	0.02	0.01
Cliff Swallow	1	100	100.00	0.03									1	100	100.00	0.01	0.01	0.01
Totals	33	1613	48.88	1.69	132	9017	68.31	4.83	72	3715	51.60	3.49	237	14345	60.53	3.26	1.58	0.91

Mesic Grass

Breeding Season 1993

Habitat = Mesic Mixed Grassland

Species Richness = 12

Species	Week 1				Week 2				Week 3				Total				s	SE
	n	Sum d	Mean d	D	n	Sum d	Mean d	D	n	Sum d	Mean d	D	n	Sum d	Mean d	D		
Western Meadowlark	20	1150	57.50	0.870	17	625	36.76	1.156	10	322	32.20	0.778	47	2097	44.62	0.658	0.20	0.11
Vesper Sparrow	6	120	20	0.75	9	274	30.44	0.739	7	157	22.43	0.780	22	551	25.05	0.549	0.02	0.01
Grasshopper Sparrow	9	282	31.33	0.718	2	70	35.00	0.143	3	75	25.00	0.300	14	427	30.50	0.287	0.30	0.17
House Finch	5	225	45.00	0.278	3	262	87.33	0.086	14	722	51.57	0.679	22	1209	54.95	0.250	0.30	0.17
Song Sparrow					2	107	53.50	0.093	6	167	27.83	0.539	8	274	34.25	0.146	0.29	0.17
Red-winged Blackbird	3	137	45.67	0.164	1	100	100.00	0.025	5	275	55.00	0.227	9	512	56.89	0.099	0.10	0.06
American Goldfinch									3	65	21.67	0.346	3	65	21.67	0.087	0.20	0.12
Horned Lark	1	25	25.00	0.100									1	25	25.00	0.025	0.06	0.03
Blue Grosbeak					1	25	25.00	0.100					1	25	25.00	0.025	0.06	0.03
Brown-headed Cowbird					3	261	87.00	0.086					3	261	87.00	0.022	0.05	0.03
Say's Phoebe	1	45	45	0.056									1	45	45.00	0.014	0.03	0.02
Mourning Dove	1	45	45	0.056									1	45	45.00	0.014	0.03	0.02
	46	2029	44.11	2.61	38	1724	45.37	2.09	48	1783	37.15	3.23	132	5536	41.94	2.62	0.57	0.33

Mesic Grass

Breeding Season 1994

Habitat = Mesic Mixed Grassland

Species Richness = 24

Species	Week 1				Week 2				Week 3				Week 4				Total				s	SE
	n	Sum d	Mean d	D	n	Sum d	Mean d	D	n	Sum d	Mean d	D	n	Sum d	Mean d	D	n	Sum d	Mean d	D		
House Finch	7	245	35.00	0.500	15	1000	66.67	0.562	55	2805	51	2.696	27	815	30.19	2.236	104	4865	46.78	1.389	1.13	0.57
Vesper Sparrow	6	130	21.67	0.69	12	550	45.83	0.66	16	300	18.75	2.13	16	390	24.38	1.64	50	1370	27.40	1.14	0.73	0.36
Cassin's Finch													6	90	15	1	6	90	15.00	0.250	0.50	0.25
Lesser Goldfinch													2	10	5	1	2	10	5.00	0.250	0.50	0.25
American Goldfinch	2	70	35.00	0.143	1	5	5.00	0.500	7	400	57.14	0.306	3	35	11.67	0.643	13	510	39.23	0.207	0.22	0.11
Western Kingbird									1	45	45.00	0.06	3	35.00	11.67	0.64	4	80	20.00	0.13	0.31	0.16
Western Meadowlark	19	825	43.42	1.09	22	770	35.00	1.57	17	535	31.47	1.35	9	325.00	36.11	0.62	67	2455	36.64	1.14	0.41	0.20
Red-winged Blackbird	4	120	30.00	0.333	9	195	21.67	1.038	3	195	65.00	0.115	7	310	44.29	0.395	23	820	35.65	0.403	0.40	0.20
Grasshopper Sparrow	2	50	25.00	0.200	1	15	15.00	0.167	4	80	20.00	0.500	2	30	15.00	0.333	9	175	19.44	0.289	0.15	0.08
Northern Oriole	4	175	43.75	0.23	4	210	52.50	0.19	2	30	15.00	0.33	3	110	36.67	0.21	13	525	40.38	0.20	0.06	0.03
Mourning Dove	1	95	95.00	0.03	5	330	66.00	0.19	17	965	56.76	0.75	5	340.00	68.00	0.18	28	1730	61.79	0.28	0.32	0.16
Say's Phoebe					2	60	30.00	0.17					1	25.00	25.00	0.10	3	85	28.33	0.07	0.08	0.04
Song Sparrow	3	105	35.00	0.21	2	70	35.00	0.14	5	220	44.00	0.28	1	35	35.00	0.07	11	430	39.09	0.18	0.09	0.05
Barn Swallow	8	800	100.00	0.20	5	500	100.00	0.13	3	300	100.00	0.08	2	200	100.00	0.05	18	1800	100.00	0.11	0.07	0.03
Mallard	1	45	45.00	0.056	1	25	25	0.1									2	70	35.00	0.036	0.05	0.02
Common Nighthawk									1	15	15.00	0.167					1	15	15.00	0.042	0.08	0.04
Killdeer	4	30	7.5	1.333	2	105	52.5	0.095	3	225	75.00	0.100					9	360	40.00	0.141	0.64	0.32
Horned Lark	1	100	100.00	0.025					2	40	20	0.25					3	140	46.67	0.040	0.12	0.06
Common Yellowthroat	2	80	40.00	0.125													2	80	40.00	0.031	0.06	0.03
Blue Grosbeak									2	105	52.50	0.10					2	105	52.50	0.02	0.05	0.02
Cliff Swallow	2	200	100.00	0.05	12	810	67.50	0.44	2	200	100.00	0.05					16	1210	75.63	0.13	0.21	0.10
Black-billed Magpie									1	25	25.00	0.10					1	25	25.00	0.03	0.05	0.03
European Starling	12	815	67.92	0.44	3	205	68.33	0.11									15	1020	68.00	0.14	0.21	0.10
American Robin					4	165	41.25	0.24	2	110	55.00	0.09					6	275	45.83	0.08	0.11	0.06
	78	3885	49.81	3.92	100	5015	50.15	4.99	143	6595	46.12	7.75	87	2750	31.61	6.88	408	18245	44.72	5.70	1.75	0.87

Mesic Grass

Breeding Season 1995

Habitat = Mesic Mixed Grassland

Species Richness = 20

Species	Week 1				Week 2				Week 3				Week 4				Total				s	SE
	n	Sum d	Mean d	D	n	Sum d	Mean d	D	n	Sum d	Mean d	D	n	Sum d	Mean d	D	n	Sum d	Mean d	D		
European Starling					8	480	60.00	0.33	27	1020	37.78	1.79	16	280	17.5	2.29	51	1780	34.90	0.91	1.11	0.55
Western Meadowlark	19	952	50.11	0.95	8	371	46.38	0.43	18	637	35.39	1.27	21	507	24.14	2.18	66	2467	37.38	1.10	0.73	0.37
Red-winged Blackbird	8	422	52.75	0.38	6	145	24.17	0.62					12	185	15.42	1.95	26	752	28.92	0.56	0.85	0.42
Vesper Sparrow	11	262	23.82	1.15	3	75	25	0.30	8	140	17.50	1.14	10	327	32.70	0.77	32	804	25.13	0.80	0.40	0.20
Grasshopper Sparrow	2	50	25.00	0.20	1	25	25.00	0.10	2	40	20.00	0.25	6	120	20.00	0.75	11	235	21.36	0.32	0.29	0.15
American Goldfinch	1	5	5.00	0.50	2	10	5	1.00	4	120	30.00	0.33	5	255	51	0.25	12	390	32.50	0.23	0.34	0.17
House Finch	19	315	16.58	2.87	36	260	7.22	12.47	20	720	36	1.39	7	625	89.29	0.20	82	1920	23.41	2.19	5.60	2.80
Brewer's Blackbird					2	10	5.00	1.00					5	330	66	0.19	7	340	48.57	0.09	0.48	0.24
Barn Swallow	3	235	78.33	0.10	5	500	100.00	0.13	2	200	100.00	0.05	5	500	100.00	0.13	15	1435	95.67	0.10	0.04	0.02
Mourning Dove	4	325	81.25	0.12	3	25	8.33	0.90					4	345	86.25	0.12	11	695	63.18	0.11	0.41	0.21
Cliff Swallow					1	100	100	0.03					4	400	100	0.10	5	500	100.00	0.03	0.05	0.02
Western Kingbird					1	35	35	0.07	1	5	5	0.50	2	145	72.5	0.07	4	185	46.25	0.05	0.23	0.11
Common Grackle	1	35	35	0.07									1	100	100.00	0.03	2	135	67.50	0.02	0.03	0.02
Red-tailed Hawk					1	100	100.00	0.03									1	100	100.00	0.01	0.01	0.01
Common Yellowthroat	2	60	30.00	0.17													2	60	30.00	0.04	0.08	0.04
Blue Grosbeak	1	15	15.00	0.17													1	15	15.00	0.04	0.08	0.04
Northern Oriole	1	15	15.00	0.17													1	15	15.00	0.04	0.08	0.04
Say's Phoebe									1	45	45.00	0.06					1	45	45.00	0.01	0.03	0.01
American Robin	2	70	35.00	0.14					1	25	25.00	0.10					3	95	31.67	0.06	0.07	0.04
Eastern Kingbird					2	10	5.00	1.00									2	10	5.00	0.25	0.50	0.25
	74	2761	37.31	4.96	79	2146	27.16	7.27	84	2952	35.14	5.98	98	4119	42.03	5.83	335	11978	35.76	5.86	0.95	0.48

Mesic Grass

Breeding Season 1996

Habitat = Mesic Mixed Grassland

Species Richness = 17

Species	Week 1				Week 2				Week 3				Week 4				Total				s	SE
	n	Sum d	Mean d	D	n	Sum d	Mean d	D	n	Sum d	Mean d	D	n	Sum d	Mean d	D	n	Sum d	Mean d	D		
Western Meadowlark	9	485	53.9	0.418	14	447	31.9	1.096	13	255	19.6	1.656	15	452	30.1	1.245	51	1639	32.1	0.992	0.51	0.26
European Starling	1	5	5.0	0.500	23	961	41.8	1.376	20	2000	100.0	0.500	41	4100	100.0	1.025	85	7066	83.1	0.639	0.43	0.21
Vesper Sparrow	3	25	8.3	0.900	5	75	15.0	0.833	2	97	48.5	0.103	8	130	16.3	1.231	18	327	18.2	0.619	0.48	0.24
Grasshopper Sparrow	3	35	11.7	0.643	4	70	17.5	0.571	4	80	20.0	0.500	8	180	22.5	0.889	19	365	19.2	0.618	0.17	0.08
Common Grackle													22	742	33.7	1.631	22	742	33.7	0.408	0.82	0.41
Red-winged Blackbird	1	100	100.0	0.025	1	25	25.0	0.100	3	15	5.0	1.500	4	60	15.0	0.667	9	200	22.2	0.253	0.68	0.34
House Finch					6	330	55.0	0.273	5	175	35.0	0.357	6	339	56.5	0.265	17	844	49.7	0.214	0.15	0.08
Brewer's Blackbird					2	200	100.0	0.050	6	125	20.8	0.720	1	15	15.0	0.167	9	340	37.8	0.149	0.33	0.17
Western Kingbird	1	15	15.0	0.167	2	87	43.5	0.115					2	174	87.0	0.057	5	276	55.2	0.057	0.07	0.04
Horned Lark													1	45	45.0	0.056	1	45	45.0	0.014	0.03	0.01
Mallard					1	45	45.0	0.056									1	45	45.0	0.014	0.03	0.01
Mourning Dove													1	45	45.0	0.056	1	45	45.0	0.014	0.03	0.01
Common Raven					1	87	87.0	0.029					1	100	100.0	0.025	2	187	93.5	0.013	0.02	0.01
Say's Phoebe													1	62	62.0	0.040	1	62	62.0	0.010	0.02	0.01
Northern Oriole													1	87	87.0	0.029	1	87	87.0	0.007	0.01	0.01
Barn Swallow									1	100	100.0	0.025					1	100	100.0	0.006	0.01	0.01
Cliff Swallow													1	100	100.0	0.025	1	100	100.0	0.006	0.01	0.01
	18	665	36.9	1.218	59	2327	39.4	3.740	54	2847	52.7	2.561	113	6631	58.7	4.814	244	12470	51.1	2.984	12.33	6.17

Xeric Grass

Breeding Season 1991

Habitat = Xeric Mixed Grasslands

Species Richness = 16

Species	Week 1				Week 2				Week 3				Total				s	SE
	n	Sum d	Mean d	D	n	Sum d	Mean d	D	n	Sum d	Mean d	D	n	Sum d	Mean d	D		
Vesper Sparrow	16	220	13.8	1.877	24	783	32.6	1.186	12	342	28.5	0.679	52	1345	25.9	1.081	0.60	0.35
Western Meadowlark	18	782	43.4	0.668	26	1562	60.1	0.698	19	1033	54.4	0.564	63	3377	53.6	0.632	0.07	0.04
Grasshopper Sparrow					11	275	25.0	0.710	12	526	43.8	0.442	23	801	34.8	0.355	0.36	0.21
Common Nighthawk	5	180	36.0	0.224	2	10	5.0	0.645	1	87	87.0	0.019	8	277	34.6	0.124	0.32	0.18
Red-winged Blackbird	5	445	89.0	0.091	14	1273	90.9	0.248					19	1718	90.4	0.113	0.13	0.07
Horned Lark					5	262	52.4	0.154	3	117	39.0	0.124	8	379	47.4	0.091	0.08	0.05
Song Sparrow					5	195	39.0	0.207					5	195	39.0	0.069	0.12	0.07
Barn Swallow					7	700	100.0	0.113	1	100	100.0	0.016	8	800	100.0	0.043	0.06	0.04
Savannah Sparrow	2	70	35.0	0.092									2	70	35.0	0.031	0.05	0.03
Mourning Dove					1	45	45.0	0.036	1	62	62.0	0.026	2	107	53.5	0.020	0.02	0.01
Black-billed Magpie					2	174	87.0	0.037	1	87	87.0	0.019	3	261	87.0	0.019	0.02	0.01
Mallard					2	174	87.0	0.037					2	174	87.0	0.012	0.02	0.01
Say's Phoebe	1	87	87.0	0.019	1	100	100.0	0.016					2	187	93.5	0.012	0.01	0.01
Red-tailed Hawk									1	87	87.0	0.019	1	87	87.0	0.006	0.01	0.01
Rufous-sided Towhee					1	87	87.0	0.019					1	87	87.0	0.006	0.01	0.01
Cliff Swallow									1	100	100.0	0.016	1	100	100.0	0.005	0.01	0.01
Totals	47	1784	38.0	1.997	101	5640	55.8	2.917	52	2541	48.9	1.716	200	9965	49.8	2.158	0.63	0.36

Xeric Grass

Breeding Season 1993

Habitat = Xeric Mixed Grassland

Species Richness = 15

Species	Week 1				Week 2				Week 3				Total				s	SE
	n	Sum d	Mean d	D	n	Sum d	Mean d	D	n	Sum d	Mean d	D	n	Sum d	Mean d	D		
Vesper Sparrow	15	423	28.2	0.649	12	352	29.3	0.499	30	496	16.5	2.213	57	1271	22.3	0.779	0.95	0.55
Western Meadowlark	27	1055	39.1	0.843	23	1355	58.9	0.476	33	1510	45.8	0.879	83	3920	47.2	0.536	0.22	0.13
Grasshopper Sparrow	21	572	27.2	0.940	16	544	34.0	0.574	14	402	28.7	0.595	51	1518	29.8	0.522	0.21	0.12
Say's Phoebe	1	5	5.0	0.244	1	5	5.0	0.244					2	10	5.0	0.122	0.14	0.08
Song Sparrow	2	20	10.0	0.244	2	124	62.0	0.039	3	75	25.0	0.146	7	219	31.3	0.068	0.10	0.06
Common Nighthawk	4	315	78.8	0.062	4	345	86.3	0.057	4	125	31.3	0.156	12	785	65.4	0.056	0.06	0.03
Horned Lark					6	307	51.2	0.143	1	15	15.0	0.081	7	322	46.0	0.046	0.07	0.04
Mourning Dove					3	160	53.3	0.069	4	230	57.5	0.085	7	390	55.7	0.038	0.05	0.03
Barn Swallow					3	287	95.7	0.038	5	500	100.0	0.061	8	787	98.4	0.025	0.03	0.02
Red-winged Blackbird	1	25	25.0	0.049	1	100	100.0	0.012	1	100	100.0	0.012	3	225	75.0	0.012	0.02	0.01
House Finch									2	115	57.5	0.042	2	115	57.5	0.011	0.02	0.01
Rufous-sided Towhee	1	62	62.0	0.020					1	62	62.0	0.020	2	124	62.0	0.010	0.01	0.01
Killdeer									1	45	45.0	0.027	1	45	45.0	0.007	0.02	0.01
Loggerhead Shrike	1	45	45.0	0.027									1	45	45.0	0.007	0.02	0.01
Cliff Swallow									1	100	100.0	0.012	1	100	100.0	0.003	0.01	0.00
	73	2522	34.5	2.577	71	3579	50.4	1.718	100	3775	37.8	3.230	244	9876	40.5	2.451	0.76	0.44

Xeric Grass

Breeding Season 1994

Habitat = Xeric Mixed Grasslands

Species Richness = 24

Species	Week 1				Week 2				Week 3				Week 4				Total				s	SE
	n	Sum d	Mean d	D	n	Sum d	Mean d	D	n	Sum d	Mean d	D	n	Sum d	Mean d	D	n	Sum d	Mean d	D		
Vesper Sparrow	9	220	24.4	0.449	37	785	21.2	2.126	27	675	25.0	1.317	22	765	34.8	0.772	95	2445	25.7	1.125	0.73	0.37
Grasshopper Sparrow	13	345	26.5	0.597	22	510	23.2	1.157	13	295	22.7	0.699	6	90	15.0	0.488	54	1240	23.0	0.717	0.29	0.15
Western Meadowlark	25	1110	44.4	0.687	38	1790	47.1	0.984	23	765	33.3	0.843	13	785	60.4	0.263	99	4450	45.0	0.671	0.31	0.16
Mourning Dove	3	225	75.0	0.049	1	100	100.0	0.012	1	100	100.0	0.012	4	220	55.0	0.089	9	645	71.7	0.038	0.04	0.02
American Goldfinch	1	25	25.0	0.049	5	310	62.0	0.098	1	100	100.0	0.012	4	230	57.5	0.085	11	665	60.5	0.055	0.04	0.02
Red-winged Blackbird	8	300	37.5	0.260	5	370	74.0	0.082	1	15	15.0	0.081	5	435	87.0	0.070	19	1120	59.0	0.098	0.09	0.05
Barn Swallow	5	275	55.0	0.111	1	100	100.0	0.012	3	300	100.0	0.037	3	300	100.0	0.037	12	975	81.3	0.045	0.04	0.02
Common Yellowthroat													1	65	65.0	0.019	1	65	65.0	0.005	0.01	0.00
Black-billed Magpie	1	5	5.0	0.244	1	85	85.0	0.014	3	165	55.0	0.067	1	75	75.0	0.016	6	330	55.0	0.033	0.11	0.05
Song Sparrow	1	15	15.0	0.081									1	85	85.0	0.014	2	100	50.0	0.012	0.04	0.02
American Kestrel									1	35	35.0	0.035	1	100	100.0	0.012	2	135	67.5	0.009	0.02	0.01
Golden Eagle	2	115	57.5	0.042	1	15	15.0	0.081									3	130	43.3	0.021	0.04	0.02
Red-tailed Hawk	1	100	100.0	0.012													1	100	100.0	0.003	0.01	0.00
Swainson's Hawk	1	100	100.0	0.012					1	100	100.0	0.012					2	200	100.0	0.008	0.01	0.00
House Finch	5	305	61.0	0.100					4	310	77.5	0.063					9	615	68.3	0.040	0.05	0.02
Common Nighthawk	1	5	5.0	0.244					2	60	30.0	0.081					3	65	21.7	0.042	0.12	0.06
Killdeer					1	75	75.0	0.016	1	45	45.0	0.027					2	120	60.0	0.010	0.01	0.01
Horned Lark	2	50	25.0	0.098					2	10	5.0	0.488					4	60	15.0	0.081	0.23	0.12
Cliff Swallow									2	200	100.0	0.024					2	200	100.0	0.006	0.01	0.01
Brown-headed Cowbird									2	50	25.0	0.098					2	50	25.0	0.024	0.05	0.02
Rufous-sided Towhee	1	40	40.0	0.030	1	75	75.0	0.016	1	45	45.0	0.027					3	160	53.3	0.017	0.01	0.01
Say's Phoebe	2	90	45.0	0.054					1	15	15.0	0.081					3	105	35.0	0.026	0.04	0.02
Western Kingbird					1	15	15.0	0.081									1	15	15.0	0.020	0.04	0.02
White-crowned Sparrow	2	30	15.0	0.163													2	30	15.0	0.041	0.08	0.04
	83	3355	40.4	2.504	114	4230	37.1	3.747	89	3285	36.9	2.941	61	3150	51.6	1.441	347	14020	40.4	2.618	0.96	0.48

Xeric Grass

Breeding Season 1995

Habitat = Xeric Mixed Grassland

Species Richness = 18

Species	Week 1				Week 2				Week 3				Week 4				Total				s	SE
	n	Sum d	Mean d	D	n	Sum d	Mean d	D	n	Sum d	Mean d	D	n	Sum d	Mean d	D	n	Sum d	Mean d	D		
Vesper Sparrow	23	587	25.5	1.099	16	427	26.7	0.731	19	315	16.6	1.398	39	949	24.3	1.955	97	2278	23.5	1.260	0.52	0.26
Grasshopper Sparrow	2	20	10.0	0.244	5	135	27.0	0.226	15	305	20.3	0.900	16	370	23.1	0.844	38	830	21.8	0.530	0.37	0.18
Western Meadowlark	26	1306	50.2	0.631	23	960	41.7	0.672	20	835	41.8	0.584	23	944	41.0	0.683	92	4045	44.0	0.638	0.04	0.02
Mourning Dove	1	100	100.0	0.012	1	15	15.0	0.081	2	105	52.5	0.046	6	110	18.3	0.399	10	330	33.0	0.092	0.18	0.09
Red-winged Blackbird	6	195	32.5	0.225	4	305	76.3	0.064	2	40	20.0	0.122	1	5	5.0	0.244	13	545	41.9	0.095	0.09	0.04
Eastern Kingbird													1	5	5.0	0.244	1	5	5.0	0.061	0.12	0.06
House Finch	3	205	68.3	0.054	3	25	8.3	0.439	3	15	5.0	0.732	8	415	51.9	0.188	17	660	38.8	0.134	0.30	0.15
Brewer's Blackbird	5	75	15.0	0.407									3	127	42.3	0.086	8	202	25.3	0.097	0.19	0.10
Lesser Goldfinch													1	15	15.0	0.081	1	15	15.0	0.020	0.04	0.02
Common Nighthawk					2	10	5.0	0.488	5	310	62.0	0.098	1	15	15.0	0.081	8	335	41.9	0.058	0.22	0.11
American Goldfinch	1	100	100.0	0.012	5	25	5.0	1.220					3	225	75.0	0.049	9	350	38.9	0.071	0.60	0.30
American Kestrel													1	62	62.0	0.020	1	62	62.0	0.005	0.01	0.01
Horned Lark	1	15	15.0	0.081					2	60	30.0	0.081	1	100	100.0	0.012	4	175	43.8	0.028	0.04	0.02
Cliff Swallow													1	100	100.0	0.012	1	100	100.0	0.003	0.01	0.00
Barn Swallow	3	300	100.0	0.037					3	300	100.0	0.037	1	100	100.0	0.012	7	700	100.0	0.021	0.02	0.01
Mallard					1	87	87.0	0.014									1	87	87.0	0.004	0.01	0.00
Black-billed Magpie	1	15	15.0	0.081	1	100	100.0	0.012									2	115	57.5	0.011	0.04	0.02
Say's Phoebe					1	5	5.0	0.244									1	5	5.0	0.061	0.12	0.06
	72	2918	40.5	2.167	62	2094	33.8	2.239	71	2285	32.2	2.690	106	3542	33.4	3.869	311	10839	34.9	2.721	0.79	0.39

Xeric Grass

Breeding Season 1996

Habitat = Xeric Mixed Grassland

Species Richness = 15

	Week 1				Week 2				Week 3				Week 4				Total					
Species	n	Sum d	Mean d	D	n	Sum d	Mean d	D	n	Sum d	Mean d	D	n	Sum d	Mean d	D	n	Sum d	Mean d	D	s	SE
Grasshopper Sparrow	13	165	12.7	1.249	19	400	21.1	1.101	37	745	20.1	2.240	27	495	18.3	1.796	96	1805	18.8	1.557	0.52	0.26
Vesper Sparrow	16	180	11.3	1.734	19	682	35.9	0.646	43	1226	28.5	1.839	41	953	23.2	2.151	119	3041	25.6	1.420	0.66	0.33
Western Meadowlark	23	610	26.5	1.058	29	1087	37.5	0.944	21	701	33.4	0.767	25	639	25.6	1.193	98	3037	31.0	0.964	0.18	0.09
Red-winged Blackbird	3	15	5.0	0.732	7	200	28.6	0.299	2	40	20.0	0.122	1	35	35.0	0.035	13	290	22.3	0.178	0.31	0.16
Common Nighthawk	1	5	5.0	0.244	2	30	15.0	0.163									3	35	11.7	0.078	0.12	0.06
Horned Lark	3	45	15.0	0.244	3	130	43.3	0.084	1	100	100.0	0.012	1	15	15.0	0.081	8	290	36.3	0.067	0.10	0.05
Mourning Dove	1	5	5.0	0.244	2	20	10.0	0.244	2	200	100.0	0.024	3	110	36.7	0.100	8	335	41.9	0.058	0.11	0.05
Barn Swallow	1	100	100.0	0.012	6	600	100.0	0.073	3	205	68.3	0.054	1	100	100.0	0.012	11	1005	91.4	0.037	0.03	0.02
Brewer's Sparrow									2	40	20.0	0.122					2	40	20.0	0.030	0.06	0.03
American Goldfinch					3	300	100.0	0.037					3	150	50.0	0.073	6	450	75.0	0.024	0.03	0.02
House Finch	1	100	100.0	0.012					2	200	100.0	0.024	4	345	86.3	0.057	7	645	92.1	0.023	0.02	0.01
Killdeer									1	25	25.0	0.049					1	25	25.0	0.012	0.02	0.01
Black-billed Magpie					1	100	100.0	0.012	1	15	15.0	0.081					2	115	57.5	0.011	0.04	0.02
Cliff Swallow					1	100	100.0	0.012					1	100	100.0	0.012	2	200	100.0	0.006	0.01	0.00
Rock Wren													1	87	87.0	0.014	1	87	87.0	0.004	0.01	0.00
	62	1225	19.8	3.827	92	3649	39.7	2.829	115	3497	30.4	4.612	108	3029	28.0	4.696	377	11400	30.2	3.801	15.96	7.98

Reclaimed

Breeding Season 1991

Habitat = Reclaimed Grassland

Species Richness = 12

Species	Week 1				Week 2				Week 3				Total				s	SE
	n	Sum d	Mean d	D	n	Sum d	Mean d	D	n	Sum d	Mean d	D	n	Sum d	Mean d	D		
Western Meadowlark	24	564	23.5	2.043	23	1137	49.4	0.931	17	837	49.2	0.690	64	2538	39.66	1.076	0.72	0.42
Vesper Sparrow	15	282	18.8	1.596	23	897	39.0	1.179	26	1396	53.7	0.969	64	2575	40.23	1.061	0.32	0.18
House Finch	31	1545	49.8	1.244	2	200	100.0	0.040	10	390	39.0	0.513	43	2135	49.65	0.577	0.61	0.35
Grasshopper Sparrow	2	90	45.0	0.089	8	395	49.4	0.324	7	296	42.3	0.331	17	781	45.94	0.247	0.14	0.08
Mourning Dove	3	65	21.7	0.277	5	317	63.4	0.158	8	735	91.9	0.174	16	1117	69.81	0.153	0.06	0.04
Red-winged Blackbird	2	70	35.0	0.114	4	277	69.3	0.116	3	274	91.3	0.066	9	621	69.00	0.087	0.03	0.02
Cliff Swallow	7	700	100.0	0.140									7	700	100.00	0.047	0.08	0.05
Savannah Sparrow					1	15	15.0	0.133					1	15	15.00	0.044	0.08	0.04
Barn Swallow	3	300	100.0	0.060	1	100	100.0	0.020					4	400	100.00	0.027	0.03	0.02
Common Grackle					1	100	100.0	0.020	1	25	25.0	0.060	2	125	62.50	0.021	0.04	0.02
Western Kingbird									1	35	35.0	0.057	1	35	35.00	0.019	0.03	0.02
American Robin	1	45	45.0	0.044									1	45	45.00	0.015	0.03	0.01
Totals	88	3661	41.6	4.231	68	3438	50.6	2.690	73	3988	54.6	2.673	229	11087	48.41	3.153	0.89	0.52

Reclaimed

Breeding Season 1993

Habitat = Reclaimed Grassland

Species Richness = 19

Species	Week 1				Week 2				Week 3				Total				s	SE
	n	Sum d	Mean d	D	n	Sum d	Mean d	D	n	Sum d	Mean d	D	n	Sum d	Mean d	D		
Vesper Sparrow	16	357	22.3	1.793	7	155	22.1	0.790	8	189	23.6	0.846	31	701	22.61	0.857	0.56	0.33
Grasshopper Sparrow	10	327	32.7	0.765	15	372	24.8	1.512	10	202	20.2	1.238	35	901	25.74	0.850	0.38	0.22
Western Meadowlark	10	344	34.4	0.727	15	464	30.9	1.212	17	777	45.7	0.930	42	1585	37.74	0.696	0.24	0.14
Mourning Dove	4	50	12.5	0.800	2	125	62.5	0.080					6	175	29.17	0.129	0.44	0.25
Red-winged Blackbird	3	202	67.3	0.111	4	120	30.0	0.333					7	322	46.00	0.095	0.17	0.10
House Finch	6	360	60.0	0.250	3	300	100.0	0.075	2	200	100.0	0.050	11	860	78.18	0.088	0.11	0.06
Common Raven	6	470	78.3	0.191					5	500	100.0	0.125	11	970	88.18	0.078	0.10	0.06
Killdeer					3	75	25.0	0.300					3	75	25.00	0.075	0.17	0.10
Say's Phoebe									2	40	20.0	0.250	2	40	20.00	0.063	0.14	0.08
Yellow-headed Blackbird	3	95	31.7	0.237	1	100	100.0	0.025					4	195	48.75	0.051	0.13	0.08
Horned Lark					1	15	15.0	0.167					1	15	15.00	0.042	0.10	0.06
Song Sparrow									1	15	15.0	0.167	1	15	15.00	0.042	0.10	0.06
Brown-headed Cowbird									1	15	15.0	0.167	1	15	15.00	0.042	0.10	0.06
Great Horned Owl	1	25	25.0	0.100									1	25	25.00	0.025	0.06	0.03
Western Kingbird									1	25	25.0	0.100	1	25	25.00	0.025	0.06	0.03
Northern Oriole									1	45	45.0	0.056	1	45	45.00	0.014	0.03	0.02
Barn Swallow					1	100	100.0	0.025	1	100	100.0	0.025	2	200	100.00	0.013	0.01	0.01
European Starling	1	87	87.0	0.029									1	87	87.00	0.007	0.02	0.01
Red-tailed Hawk									1	100	100.0	0.025	1	100	100.00	0.006	0.01	0.01
	60	2317	38.6	3.884	52	1826	35.1	3.702	50	2208	44.2	2.831	162	6351	39.20	3.444	0.56	0.33

Reclaimed

Breeding Season 1994

Habitat = Reclaimed Grassland

Species Richness = 18

Species	Week 1				Week 2				Week 3				Week 4				Total				s	SE
	n	Sum d	Mean d	D	n	Sum d	Mean d	D	n	Sum d	Mean d	D	n	Sum d	Mean d	D	n	Sum d	Mean d	D		
Western Meadowlark	23	960	41.7	1.102	22	1000	45.5	0.968	22	700	31.8	1.383	29	1245	42.93	1.351	96	3905	40.68	1.180	0.20	0.10
Vesper Sparrow	16	550	34.4	0.931	14	550	39.3	0.713	14	320	22.9	1.225	20	740	37.00	1.081	64	2160	33.75	0.948	0.22	0.11
Mourning Dove	7	485	69.3	0.202	11	770	70.0	0.314					9	380	42.22	0.426	27	1635	60.56	0.223	0.18	0.09
Grasshopper Sparrow	15	455	30.3	0.989	12	410	34.2	0.702	8	205	25.6	0.624	4	90	22.50	0.356	39	1160	29.74	0.656	0.26	0.13
Western Kingbird													1	15	15.00	0.133	1	15	15.00	0.033	0.07	0.03
House Finch	4	335	83.8	0.096	6	260	43.3	0.277	9	530	58.9	0.306	5	445	89.00	0.112	24	1570	65.42	0.183	0.11	0.05
Song Sparrow	2	60	30.0	0.133					7	375	53.6	0.261	2	80	40.00	0.100	11	515	46.82	0.117	0.11	0.05
Common Grackle	1	100	100.0	0.020	5	475	95.0	0.105					3	195	65.00	0.092	9	770	85.56	0.053	0.05	0.03
Barn Swallow	1	100	100.0	0.020	1	100	100.0	0.020	2	200	100.0	0.040	2	200	100.00	0.040	6	600	100.00	0.030	0.01	0.01
Red-winged Blackbird	2	105	52.5	0.076	1	100	100.0	0.020	4	250	62.5	0.128	1	65	65.00	0.031	8	520	65.00	0.062	0.05	0.02
Turkey Vulture													1	100	100.00	0.020	1	100	100.00	0.005	0.01	0.01
Northern Oriole	1	45	45.0	0.044	1	15	15.0	0.133	1	55	55.0	0.036	1	100	100.00	0.020	4	215	53.75	0.037	0.05	0.03
American Goldfinch	3	300	100.0	0.060					2	80	40.0	0.100					5	380	76.00	0.033	0.05	0.02
Killdeer	1	85	85.0	0.024	3	215	71.7	0.084	1	100	100.0	0.020					5	400	80.00	0.031	0.04	0.02
Horned Lark	1	85	85.0	0.024													1	85	85.00	0.006	0.01	0.01
Blue Grosbeak									2	60	30.0	0.133					2	60	30.00	0.033	0.07	0.03
Say's Phoebe					1	100	100.0	0.020	1	45	45.0	0.044					2	145	72.50	0.014	0.02	0.01
Eastern Kingbird	1	55	55.0	0.036													1	55	55.00	0.009	0.02	0.01
	78	3720	47.7	4.089	77	3995	51.9	3.710	73	2920	40.0	4.563	78	3655	46.86	4.161	306	14290	46.70	4.095	0.35	0.17

Reclaimed

Breeding Season 1995

Habitat = Reclaimed Grassland

Species Richness = 18

Species	Week 1				Week 2				Week 3				Week 4				Total				s	SE
	n	Sum d	Mean d	D	n	Sum d	Mean d	D	n	Sum d	Mean d	D	n	Sum d	Mean d	D	n	Sum d	Mean d	D		
Vesper Sparrow	13	287	22.1	1.178	11	426	38.7	0.568	14	648	46.3	0.605	27	870	32.22	1.68	65	2231	34.32	0.95	0.53	0.26
Grasshopper Sparrow	14	320	22.9	1.225	8	292	36.5	0.438	7	175	25.0	0.560	12	402	33.50	0.72	41	1189	29.00	0.71	0.35	0.17
Western Meadowlark	17	945	55.6	0.612	18	725	40.3	0.894	18	589	32.7	1.100	17	836	49.18	0.69	70	3095	44.21	0.79	0.22	0.11
House Finch	11	650	59.1	0.372	9	750	83.3	0.216	4	250	62.5	0.128	6	217	36.17	0.33	30	1867	62.23	0.24	0.11	0.06
Northern Oriole													1	15	15.00	0.13	1	15	15.00	0.03	0.07	0.03
Mourning Dove	2	30	15.0	0.267	4	137	34.3	0.234	1	25	25.0	0.080	4	290.00	72.50	0.11	11	482	43.82	0.13	0.09	0.05
Barn Swallow	8	725	90.6	0.177									1	100	100	0.02	9	825	91.67	0.05	0.09	0.04
Red-winged Blackbird	3	300	100.0	0.060	3	235	78.3	0.077	3	300	100.0	0.060					9	835	92.78	0.05	0.03	0.02
American Goldfinch	6	365	60.8	0.197					1	100	100.0	0.020					7	465	66.43	0.05	0.10	0.05
Common Raven	7	160	22.9	0.612													7	160	22.86	0.15	0.31	0.15
Horned Lark	1	35	35.0	0.057													1	35	35.00	0.01	0.03	0.01
Brewer's Blackbird	2	135	67.5	0.059													2	135	67.50	0.02	0.03	0.01
American Kestrel	1	100	100.0	0.020													1	100	100.00	0.01	0.01	0.01
Cliff Swallow	2	200	100.0	0.040													2	200	100.00	0.01	0.02	0.01
Song Sparrow					1	45	45.0	0.044									1	45	45.00	0.01	0.02	0.01
Brown-headed Cowbird	2	145	72.5	0.055													2	145	72.50	0.01	0.03	0.01
Say's Phoebe					1	15	15.0	0.133	1	100	100.0	0.020					2	115	57.50	0.02	0.06	0.03
American Robin	2	50	25.0	0.160													2	50	25.00	0.04	0.08	0.04
	91	4447	48.9	3.724	55	2625	47.7	2.305	49	2187	44.6	2.196	68	2730	40.15	3.39	263	11989	45.59	2.88	0.77	0.38

Reclaimed

Breeding Season 1996

Habitat = Reclaimed Grassland

Species Richness = 17

Species	Week 1				Week 2				Week 3				Week 4				Total				s	SE
	n	Sum d	Mean d	D	n	Sum d	Mean d	D	n	Sum d	Mean d	D	n	Sum d	Mean d	D	n	Sum d	Mean d	D		
Grasshopper Sparrow	4	90	22.5	0.356	10	140	14.0	1.429	11	255	23.2	0.949	14	310	22.1	1.265	39	795	20.4	0.957	0.47	0.24
Vesper Sparrow	3	65	21.7	0.277	11	309	28.1	0.783	17	430	25.3	1.344	14	270	19.3	1.452	45	1074	23.9	0.943	0.54	0.27
Western Meadowlark	13	651	50.1	0.519	15	606	40.4	0.743	17	439	25.8	1.317	20	754	37.7	1.061	65	2450	37.7	0.862	0.35	0.18
Say's Phoebe	1	5	5.0	0.400									7	95	13.6	1.032	8	100	12.5	0.320	0.49	0.24
Mourning Dove	4	305	76.3	0.105	7	399	57.0	0.246	3	150	50.0	0.120	10	619	61.9	0.323	24	1473	61.4	0.196	0.10	0.05
Red-winged Blackbird	9	900	100.0	0.180	1	100	100.0	0.020	3	35	11.7	0.514	6	175	29.2	0.411	19	1210	63.7	0.149	0.22	0.11
House Finch	1	5	5.0	0.400	4	315	78.8	0.102	3	55	18.3	0.327	3	150	50.0	0.120	11	525	47.7	0.115	0.15	0.07
Western Kingbird									1	15	15.0	0.133	2	50	25.0	0.160	3	65	21.7	0.069	0.09	0.04
Northern Oriole	1	25	25.0	0.080	1	15	15.0	0.133									2	40	20.0	0.050	0.07	0.03
Horned Lark									2	50	25.0	0.160					2	50	25.0	0.040	0.08	0.04
American Goldfinch					1	15	15.0	0.133									1	15	15.0	0.033	0.07	0.03
Barn Swallow	4	400	100.0	0.080	1	100	100.0	0.020					1	100	100.0	0.020	6	600	100.0	0.030	0.03	0.02
Brewer's Blackbird													6	600	100.0	0.120	6	600	100.0	0.030	0.06	0.03
Common Yellowthroat									1	25	25.0	0.080					1	25	25.0	0.020	0.04	0.02
Killdeer									1	25	25.0	0.080					1	25	25.0	0.020	0.04	0.02
American Robin					2	105	52.5	0.076									2	105	52.5	0.019	0.04	0.02
Cliff Swallow					1	100	100.0	0.020									1	100	100.0	0.005	0.01	0.01
																					0.00	0.00
	40	2446	61.2	1.308	54	2204	40.8	2.646	59	1479	25.1	4.707	83	3123	37.6	4.412	236	9252	39.2	3.010	13.07	6.54

Winter Season 1996/97

Habitat = Wetlands

Species Richness = 8

Species	December				January				February				Total				s	SE
	n	Sum d	Mean d	D	n	Sum d	Mean d	D	n	Sum d	Mean d	D	n	Sum d	Mean d	D		
American Tree Sparrow					5	25	5.00	1.67	4	60	15.00	0.67	9	85	9.44	0.27	0.84	0.48
Western Meadowlark					2	10	5.00	0.67					2	10	5.00	0.11	0.39	0.22
Black-billed Magpie					5	75	15.00	0.56	1	100	100	0.03	6	175	29.17	0.06	0.31	0.18
Common Snipe					1	5	5	0.33					1	5	5.00	0.06	0.19	0.11
Song Sparrow					1	15	15.00	0.11	1	25	25.00	0.10	2	40	20.00	0.03	0.06	0.04
Red-winged Blackbird									1	15	15.00	0.17	1	15	15.00	0.02	0.10	0.06
European Starling									3	300	100.00	0.08	3	300	100.00	0.01	0.04	0.03
Northern Harrier					1	100	100.00	0.02					1	100	100.00	0.00	0.01	0.01
	0	0	0.0	0.000	15	230	15.3	1.630	10	500	50.0	0.333	25	730	29.2	0.476	0.86	0.50

Winter Season 1995/96

Habitat = Riparian Woodlands

Species Richness = 9

Species	December				January				February				Total				s	SE
	n	Sum d	Mean d	D	n	Sum d	Mean d	D	n	Sum d	Mean d	D	n	Sum d	Mean d	D		
Black-capped Chickadee	4	20	5.00	1.33	4	115	28.75	0.23	18	90	5.00	6.00	22	110	5.00	1.22	3.06	1.77
Black-billed Magpie	1	5	5.00	0.33					11	55	5.00	3.67	16	175	10.94	0.41	2.03	1.17
Northern Flicker	4	60	15	0.44	1	5	5.00	0.33	1	5	5	0.33	6	70	11.67	0.14	0.06	0.04
European Starling					6	125	20.83	0.48	2	10	5	0.67	8	135	16.88	0.13	0.34	0.20
Downy Woodpecker									2	10	5.00	0.67	2	10	5.00	0.11	0.39	0.22
Song Sparrow	1	5	5.00	0.33	1	5	5.00	0.33					2	10	5.00	0.11	0.19	0.11
American Tree Sparrow					1	5	5.00	0.33					1	5	5.00	0.06	0.19	0.11
Great Horned Owl	1	64	64.00	0.03	1	5	5.00	0.33					2	69	34.50	0.02	0.19	0.11
Horned Lark									1	100	100.00	0.02	1	100	100.00	0.00	0.01	0.01
	11	154	14.0	1.310	14	260	18.6	1.256	35	270	7.7	7.562	60	684	11.4	2.924	3.63	2.09

Species Richness = 3

BCALCWIN.XLS 2/24/97

Winter Season 1996/97

Habitat = Upland Shrublands

Species Richness = 10

Species	December				January				February				Total				s	SE
	n	Sum d	Mean d	D	n	Sum d	Mean d	D	n	Sum d	Mean d	D	n	Sum d	Mean d	D		
Black-capped Chickadee	11	245	22.27	1.24	4	40	10	1.00	2	50	25.00	0.20	17	335	19.71	0.36	0.54	0.31
Black-billed Magpie	2	200	100.00	0.05	7	219	31.3	0.56	13	660	50.77	0.64	22	1079	49.05	0.19	0.32	0.18
House Finch	31	2930	94.52	0.82					5	305	61.00	0.21	36	3235	89.86	0.17	0.43	0.25
European Starling					10	935	93.50	0.27					10	935	93.50	0.05	0.15	0.09
Horned Lark					5	315	63.00	0.20					5	315	63.00	0.03	0.11	0.07
American Robin									2	50	25.00	0.20	2	50	25.00	0.03	0.12	0.07
Northern Flicker	2	200	100	0.05	1	87	87	0.03	1	15	15	0.17	4	302	75.50	0.02	0.07	0.04
Red-winged Blackbird									3	190	63.3	0.12	3	190	63.33	0.02	0.07	0.04
Great Horned Owl					1	87	87.00	0.03					1	87	87.00	0.01	0.02	0.01
Common Raven	1	100	100.00	0.03									1	100	100.00	0.00	0.01	0.01
	47	3675	78.19	1.50	28	1683	60.11	1.16	26	1270	48.85	1.33	101	6628	65.62	1.28	#DIV/0!	#DIV/0!

Habitat = Mesic Mixed Grasslands
Species Richness = 8

BCALCWIN.XLS 2/24/97

Habitat = Xeric Mixed Grasslands

Species Richness = 5

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Species Richness = 2

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